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COMPLETION REPORT INTERIM/STABILIZATION MEASURE FOR SOLID WASTE MANAGEMENT UNIT 5 (SWMU5) AREA OF CONCERN 605 (AOC605) AND (AOC621) BATTERY WRECKING/SALVAGE AREA WITH TRANSMITTAL CNC CHARLESTON SC
4/10/1998
U S NAVY

COMPLETION REPORT

INTERIM/STABILIZATION MEASURE FOR
SWMU 5, AOC 605 & AOC 621
BATTERY WRECKING/SALVAGE AREA
NAVAL BASE CHARLESTON
CHARLESTON, SC

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC

Prepared by:

Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106

April 10, 1998

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN
PORTSMOUTH, VIRGINIA, DETACHMENT ENVIRONMENTAL CHARLESTON
1899 NORTH HOBSON AVENUE, BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:

Ser 321
APR 0 9 1998

Mr. G. Randall Thompson, Director
Division of Hazardous and Infectious Waste Management
Bureau of Solid and Hazardous Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

Dear Mr. Thompson,

The enclosed interim measure completion report for Solid Waste Management Unit (SWMU) 5 is submitted to fulfill the requirement of Permit Condition IV.D.6 for Permit Number SCO 170 022 560. If the Department of Health and Environmental Control should have any questions, please contact Reece Batten of Southern Division Naval Facilities Engineering Command (NAVFAC) at (803) 820-5578.

Sincerely,

for E. R. Dearhart
Director

Encl:
(1) SWMU 5 Completion Report

Copy to:
SCDHEC (Mr. Tapia & Mr. Bergstrand)
USEPA (Mr. Spariosu)
CSO Naval Base Charleston (LCDR Rose)
NAVFAC (Mr. Batten)
EA&H (Ms. Maddux)

COMPLETION REPORT

Interim/Stabilization Measure for
SWMU 5, AOC 605 & AOC 621
Charleston Naval Complex, Charleston, SC

Engineering Branch Head: _____ Date: 4/10/98

Prepared By: _____ Date: 4/9/98

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COMPLETION REPORT

INTERIM/STABILIZATION MEASURE FOR
SWMU 5, AOC 605 & AOC 621
BATTERY WRECKING/SALVAGE AREA
NAVAL BASE CHARLESTON
CHARLESTON, SC

Prepared for:

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April 10, 1998

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ACRONYMS, ABBREVIATIONS and SYMBOLS

AOC	Area of Concern
CMS	Corrective Measures Study
COPC	Constituent of Potential Concern
DERP	Defense Environmental Restoration Program
DET	Environmental Detachment Charleston
DON	Department of the Navy
IM	Interim Measure
IR	Installation Restoration
mg/kg	milligrams per kilogram (equal to parts per million)
PCB	Polychlorinated Biphenyls
ppm	Parts Per Million
PT	Project Team
PVC	Polyvinyl Chloride
RBC	Risk Based Concentration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
ROC	Run of Crusher (crushed aggregate)
SARA	Superfund Amendments and Reauthorization Act
SCDHEC	South Carolina Department of Health and Environmental Control
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SUPSHIP	Supervisor of Shipbuilding, Conversion and Repair, USN
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
USN	United States Navy
μg/kg	micrograms per kilogram (equal to parts per billion)

1. INTRODUCTION

1.1 INSTALLATION RESTORATION PROGRAM. The purpose of the Department of the Navy (DON) Installation Restoration (IR) Program is to identify, assess, characterize and clean up or control contamination from past hazardous waste disposal operations and hazardous material spills at Navy and Marine Corps activities. The Defense Environmental Restoration Program (DERP) is codified in the Superfund Amendments and Reauthorization Act (SARA) Section 211 (10 USC 2701). The IR Program is a component of DERP.

1.1.1 Naval Base Charleston IR Program. At Naval Base Charleston, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) was prepared which divided the Naval Base into zones and identified Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) within each zone. The RFA evaluated each SWMU and AOC and determined which sites required further investigation. Based on the RFA, a RCRA Facility Investigation (RFI) work plan has been or is being prepared for each zone containing SWMUs and AOCs requiring further investigation. On completion of the RFI for each Zone, a RFI report will be prepared for that zone. The RFI reports will identify SWMUs and AOCs containing wastes requiring remediation. Eventually, Corrective Measures Studies (CMSs) will be prepared to determine the best means of remediating each site.

1.2 INTERIM MEASURES. Interim Measures (IM) performed as part of the IR Program are intended to eliminate sources of environmental contamination or limit the spread of environmental contaminants prior to the completion of the RFI CMSs.

1.3 SOLID WASTE MANAGEMENT UNIT 5 AND AOCs 605 & 621. SWMU 5, AOC 605 and AOC 621, all located in Zone "E", were associated with submarine battery salvaging, restoring and recharging operations including battery wrecking, draining of the acid, neutralization of the acid and processing/storage of salvaged battery materials. Subsequent to battery processing operations, AOC 605 was also used as a waste paint storage area.

SWMU 5 is the former battery electrolyte treatment facility (structure #1797) located on the south side of Pad 1278 and adjacent to dry dock #4. This site operated from 1962 until 1985 and was used to neutralize submarine battery acid. This site consists of two partially subsurface neutralization pits and associated piping.

AOC 605 is a former waste paint storage area adjacent to dry dock 4 on Pad 1278. The 40 feet by 250 feet uncovered concrete pad was constructed in 1943 as a welding area. Beginning in 1987, the pad was used for storage of materials such as paints, used oils, solvents and chemicals. The pad is bordered to the south and west by unpaved areas.

AOC 621 is the former battery wrecking pad associated with the Battery Shop. This site consists of a concrete pad approximately 10' x 10' surrounded by a 1' concrete containment wall with a collection sump and drain piping to the neutralization pits. This battery wrecking pad is constructed on top of Pad 1278 near the southeast corner. This site operated from the early 1950's until the mid 1970's and was used for cracking submarine batteries, draining the acid and recovering the battery casings and lead.

The waste materials associated with SWMU 5 and AOC 621 were generated from batteries. The Constituents of Potential Concern (COPCs) associated with these two sites include solvents, acids and heavy metals (particularly lead).

The waste materials associated with AOC 605 were generated primarily from paints and solvents. The COPCs associated with this site also include solvents, acid and lead as well as petroleum hydrocarbons.

The primary migration pathways at all of these sites are soil and groundwater, both of which were selected for sampling under the Zone "E" RFI Work Plan. Soil contamination to groundwater is expected. Refer to **TABLE A** of Appendix A for a tabulation of all SWMU 5 and AOC 605 RFI soil sample analytical results which exceed the United States Environmental Protection Agency (USEPA) Region III Risk Based Concentration (RBC) Table levels.

Because of the close physical proximity of these three sites, they were grouped for investigative purposes and were also grouped for the purpose of IM remedial actions. Refer to **FIGURE 1** of Appendix B for the location and relationship of these three sites and the RFI soil sample locations.

1.4 SWMU 5, AOC 605 & AOC 621 INTERIM MEASURE. During the interval between the RFI and the completion of the CMS, it was decided by Southern Division Naval Facilities Engineering Command (SOUTHDIV) that an IM would be performed by Supervisor of Shipbuilding, Conversion and Repair (SUPSHIP), United States Navy (USN), Portsmouth Va. Environmental Detachment Charleston (DET). The objective of this IM was to stabilize the site by removing lead contaminated soils from the area around SWMU 5, AOC 605 and AOC 621 until the sampling program indicated with reasonable confidence that the concentration of lead at the site was less than 1300 parts per million (ppm). This was the total lead concentration target level established for this IM based on intended industrial reuse of the site. Groundwater remediation was not an objective of this IM and, as previously stated, no remedial action was intended for the neutralization pits, the wrecking pad or pad 1278 since these structures were not considered sources for hazardous constituents. This IM was consistent with the ultimate cleanup of the site and was not intended to circumvent the public participation process inherent within environmental cleanup under RCRA authority.

The results of investigatory samples taken by the DET indicate that the acid neutralization pits as well as the battery wrecking pad should not be considered as sources for hazardous constituents. Refer to **TABLE B** of Appendix A for a tabulation of sample information, including analytical results. Although no samples were collected by the DET from pad 1278, this pad was also not considered as a source for hazardous constituents since only thoroughly dried paint remains adhered to the pad surface. Consequently, no IM remedial action was intended for the neutralization pits, the wrecking pad or pad 1278.

It should be noted that SWMU 18 is also in the immediate vicinity of the three previously mentioned sites and consists of a former 20' x 20' Polychlorinated Biphenyl (PCB) spill area at the Public Works

Resource Recovery Facility Storage Area. Refer to **FIGURE 2** of Appendix B for the location of SWMU 18. The spill, which occurred in 1987, resulted in the release of approximately 75 gallons of Pyranol fluid to the soil. This site was reported to be completely remediated in Section 2.6.18 of the KEMRON Environmental Services, Inc. RFI Final Report dated September, 1991 and subsequent sample results from the Ensafe/Allen & Hoshall Final Zone E RFI Work Plan dated 2 June, 1995 also indicate PCBs are no longer present. Therefore, no remedial action for PCBs was intended by this IM. However, since SWMU 18 samples taken by EnSafe did reflect elevated concentrations of lead, this area will be included in the excavation. Refer to **TABLE C** of Appendix A for a tabulation of all SWMU 18 RFI soil sample analytical results which exceed RBC Table levels.

2. INTERIM MEASURE EXECUTION

2.1 ACTIONS REQUIRED BY INTERIM MEASURE WORKPLAN.

2.1.1 Soil Excavation. The work plan required the excavation of lead contaminated soil from three isolated locations at the site. Based on RFI sampling, these locations contained elevated concentrations of lead (>1300 ppm) at interval 1 (0 to 1 foot deep). These locations are labeled as sample numbers 005SB002, 605SB002 and 018SB004 in **FIGURE 1** of Appendix B and were identified as areas to be excavated in **FIGURE 2** of Appendix B. Initial excavation at each of these three isolated areas was to consist of removing the top 2 feet of soil from a rectangular area approximately 6 feet by 6 feet. Based on the results of screening samples, the excavations could be expanded up to an area approximately 10 feet by 10 feet by 3 feet deep. The work plan required an engineering evaluation and SOUTHDIV concurrence for any further excavation expansion. All soil excavated from this site was placed in appropriate disposal containers. Based on screening samples and SOUTHDIV concurrence, the final excavation measured approximately 30 feet wide by 70 feet long by 4-1/2 feet deep as discussed in paragraph 2.3.1 of this report.

2.1.2 Monitoring Well Abandonment. Monitoring well 605GW002 existed at SWMU 5 at sample location 605SB002. The work plan required abandonment of this well prior to commencing excavation at the site and fourth quarter groundwater sampling at this well was complete prior to abandonment. Abandonment of this well was completed on March 14, 1997. A copy of the letter nofifying the South Carolina Department of Health and Environmental Control (SCDHEC) of abandonment of this well is included in Appendix E.

2.1.3 Flushing of Acid Drain Piping. The work plan required a low pressure, fresh water flush of one 2 inch and one 4 inch, subsurface, polyvinyl chloride (PVC) acid drain line. Refer to **FIGURE 2** of Appendix B for the location and routing of this piping. Flushing of these acid drain lines was to continue until a pH value of between 5.0 and 9.0 was obtained at the flushing outlet. All flushing water was to be collected, sampled, characterized and properly disposed. Flushing was completed on March 5, 1997. A copy of the pH test results for the flushing water is included in Appendix E.

2.1.4 Removal of Acid Drain Piping. Subsequent to satisfactory flush, the work plan required excavation, removal and proper disposal of a section of the 2 inch piping from the neutralization pit to the southwest perimeter boundary fence along River Road as well as all of the 4 inch piping from the neutralization pit to the wrecking pad. Refer to **FIGURE 2** of Appendix B for the location and routing of this piping. Removal of all acid drain piping was completed on March 7, 1997.

2.2 OBSERVATIONS NOTED. No unexpected or unusual circumstances were observed during execution of the work plan.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION.

2.3.1 Volume of Excavated Soil. The volume of soil to be excavated during this project was originally estimated to be between 8 cubic yards (3 rectangular areas, 6 feet x 6 feet x 2 feet deep) and 33 cubic yards (3 rectangular areas, 10 feet x 10 feet x 3 feet deep) as described in Section 4 of the IM work plan. However, in early 1997 it was decided by the Project Team (PT) that initial excavation would consist of removing all of the soil, down to second interval depth (3-5 feet deep), along the northwest side of Building 1435 (up to pad 1278) and across the southwest end of Building 1435 (up to the fence). Refer to **FIGURE 3** of Appendix B for an illustration of the initial excavation boundary.

Subsequent to the initial excavation described in the previous paragraph, several evolutions of additional excavation, followed by additional sampling, were necessary to accomplish the objective of the IM as stated in the opening paragraph of Section 1.4 of this report. The excavation boundary, or portions of it, was expanded a total of four times with a total of five rounds of corresponding investigatory and/or confirmatory sampling. Refer to **FIGURE 4** through **FIGURE 9** of Appendix B for an illustration of the sequence of changes to the excavation boundary and the corresponding sample locations. Appendix F includes photographs taken during excavation operations at the site. The combined total volume of soil excavated from the SWMU 5 site was 1,019,680 pounds (509.84 tons) or 339.89 cubic yards based on 1.5 tons per cubic yard. Refer to **FIGURE 10** of Appendix B

for a 3-D topographic site map of the finished excavation which measured approximately 30 feet wide by 70 feet long by 4-1/2 feet deep.

2.3.2 Relocation of Building 1435. Based on unsatisfactory results of first round confirmatory samples collected immediately adjacent to the northwest side of Building 1435, relocation of this building was necessary to facilitate additional investigatory sampling and subsequent additional excavation of soil under the building.

2.3.3 Removal and Reinstallation of the Battery Crane. Based on unsatisfactory results of second round confirmatory samples collected immediately adjacent to the northeast side of the battery crane foundation, temporary removal of the battery crane was necessary to facilitate the safe excavation of soil under the battery crane foundation. It should be noted here that four concrete pilings were unearthed during removal of the soil under the battery crane foundation and that these pilings, not the soil, provide all the support for the battery crane. The battery crane was reinstalled after receiving satisfactory results of fifth round confirmatory samples and prior to backfilling of the excavation.

2.3.4 Backfilling of the Excavation. As previously stated, backfilling of the SWMU 5 excavation was not originally intended. However, due to the substantial increase in volume of excavated soil, backfilling became necessary. For informational purposes, the DET requested further analysis of soil from two of the fourth round confirmatory samples to determine the concentration of leachable lead in the soil. The Toxicity Characteristic Leaching Procedure (TCLP) result on the first sample, which had 2150 ppm total lead, was 26.6 ppm. The TCLP result on the second sample, which had 4620 ppm total lead, was 81.1 ppm. Refer to **TABLE B** of Appendix A for a tabulation of sample information, including analytical results. Based on this information, SOUTHDIV requested that a 1 foot layer of soil/lime mix, at a 1/1000 ratio, be spread into the bottom of the excavation prior to filling the excavation with clean fill. This was intended to help precipitate the leachable (soluble) lead out of the soil to further stabilize the site. Based on the total volume of excavated soil reported

in Section 2.3.1 of this report and allowing 25% for compaction, a total of 437 cubic yards of backfill was required for the SWMU 5 excavation.

3.0 INTERIM MEASURE OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK. Following completion of all site work on 13 January 1998, the site was clean and well groomed. The overall general shape and slope of the site remained the same as it was prior to the start of the IM. Monitoring well 605GW002 is no longer present on the southwest end of the excavated area and Building 1435 is no longer present on the southeast side of the excavated area. The battery crane, which was temporarily removed, was restored to its original location. The soil immediately adjacent to pad 1278 is now even with the bottom of the pad, whereas prior to the IM it was several inches below the bottom of the pad. This was done intentionally to allow for some additional compaction and settling. The original surface of the site consisted of weeds growing in Run of Crusher (ROC) and coarse crushed granite. Grass seed was not cast onto the backfilled area.

4. SAMPLING

4.1 SAMPLING EVOLUTIONS AND RESULTS

4.1.1 Confirmatory Sampling. A total of 72 confirmatory samples were collected by the DET throughout the course of this IM. All of these were soil samples which were collected during excavation operations. Refer to **TABLE B** of Appendix A for a tabulation of sample information, including analytical results. Refer to Appendix C for copies of the analytical data and the Chain of Custody Records for all samples.

4.1.2 Investigatory Sampling. A total of 21 investigatory samples were collected by the DET throughout the course of this IM. Refer to **TABLE B** of Appendix A for a tabulation of sample information, including analytical results. Refer to Appendix C for copies of the analytical data and the Chain of Custody Records for all samples. The DET investigatory samples include the following:

1 water sample collected from each side of the divided acid neutralization pit and analyzed for total metals and pH (pH test performed by the DET);

1 concrete (pulverized) sample collected from the bottom of the battery wrecking pad which was also analyzed for total metals;

16 first round soil samples collected during excavation operations, following removal of Building 1435, and analyzed for total lead;

2 fourth round soil samples which were further analyzed for leachable lead concentration.

Investigatory sampling was also performed by Ensafe as part of the RFI process prior to the start of this IM. Refer to **TABLE A & TABLE C** of Appendix A for a tabulation of all SWMU 5 & AOC 605 and SWMU 18 RFI soil sample analytical results which exceed the USEPA Region III RBC table levels.

5. WASTE GENERATION

5.1 HAZARDOUS/POTENTIALLY HAZARDOUS WASTE

5.1.1 Hazardous Excavated Soil. Between 31 March 1997 and 15 December 1997, a total of 1,019,680 pounds (509.84 tons) of hazardous lead contaminated soil was transported by Laidlaw Environmental Services of South Carolina, Inc. from the SWMU 5 site to Pinewood Landfill located at Rt. 1, Box 255, Pinewood, South Carolina, 29125 under contract number N62467-97-M-4411. Refer to **TABLE D** of Appendix A for a tabulation of information regarding transportation/disposal of this waste. Refer to Appendix D for copies of all shipping manifests for this waste.

5.2 NON-HAZARDOUS WASTE

5.2.1 Non-Hazardous Excavated Soil. There was no non-hazardous soil excavated from the SWMU 5 site during this IM.

APPENDIX A

TABLES

SWMU 5 AND AOC 605 RFI SOIL SAMPLE RESULTS WHICH EXCEED RBC TABLE LEVELS

SAMPLE	Arsenic	Beryllium	Iron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a, h) anthracene	N-nitrosopyrrolidine
	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)									
	IND. = 3.8 RES. = 0.43	IND = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7.8 RES. = 0.88	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3
005SB001 INTERVAL 01	4 2	0 32					0.45		0 12	
005SB001 INTERVAL 02	6.1	0.57					0.29			
005SB002 INTERVAL 01	2.1			10,500			0.13			
005SB002 INTERVAL 02	12.7									
005SB003 INTERVAL 01	5 2	0 69		462						
005SB003 INTERVAL 02	4 7	0.52								
605SB001 INTERVAL 01	5.7	0.51					0.16			
605SB002 INTERVAL 01	1.1			1,600						
605SB002 INTERVAL 02	11			1,260						
605SB003 INTERVAL 01	10 9	0 84				0 92	0.64		0.29	

Shaded blocks represent lead concentrations which are in excess of 1300 ppm.

TABLE A

Sheet 1 of 4

SWMU 5 AND AOC 605 RFI SOIL SAMPLE RESULTS WHICH EXCEED RBC TABLE LEVELS

SAMPLE	Arsenic	Beryllium	Iron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a, h) anthracene	N-nitrosopyrrolidine
	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)									
	IND. = 3.8 RES. = 0.43	IND. = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7 8 RES. = 0.88	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3
605SB004 INTERVAL 01	18.6	0 66			5.7	4.4	4	2 9	0 86	
605SB005 INTERVAL 01	7.2	2.2								
605SB005 INTERVAL 02	7.2	0.83					0 92			
605SB006 INTERVAL 01	2.5	0.31					0.17			
605SB006 INTERVAL 02	19	0 91	25,900							
605SB007 INTERVAL 01	3.2	3.7		1,190			0.10			
605SB008 INTERVAL 01	8.8	0 63		460			0.81		0.30	
605SB008 INTERVAL 02	4 2									
605SB009 INTERVAL 01	3.3	0 64		731			0 17			
605SB009 INTERVAL 02	4.2	0 56								
605SB010 INTERVAL 01	2 3	0 38								

TABLE A

SWMU 5 AND AOC 605 RFI SOIL SAMPLE RESULTS WHICH EXCEED RBC TABLE LEVELS

SAMPLE	Arsenic	Beryllium	Iron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a, h) anthracene	N-nitrosopyrrolidine
	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)									
	IND. = 3.8 RES. = 0.43	IND = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7 8 RES. = 0.88	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3
† 605CB010 INTERVAL 01	7.3	0.45					0.11			0.46
605SB010 INTERVAL 02	5.7	0 49					0.16			
605SB011 INTERVAL 01	1 5	0.94								
605SB011 INTERVAL 02	9.3	0 72								
† 605CB011 INTERVAL 02	5.2	0.20					0.11			0 39
‡ 605SB012 INTERVAL 01	14.9	2.8		815			0 14			
†‡ 605CB012 INTERVAL 01	11.8	2 8		984			0.40		0.11	
‡ 605SB012 INTERVAL 02	6.8	0 49								
‡ 605SB013 INTERVAL 01	4	1		627		1	0.81		0.31	
‡ 605SB014 INTERVAL 01	16.9	0.53				1 2	0.82		0.28	
†‡ 605CB014 INTERVAL 01	31.4	0.61				0.89	0.85		0.34	

† Duplicate soil samples, ‡ Second round samples

TABLE A

SWMU 5 AND AOC 605 RFI SOIL SAMPLE RESULTS WHICH EXCEED RBC TABLE LEVELS

SAMPLE	Arsenic	Beryllium	Iron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a, h) anthracene	N-nitrosopyrrolidine
	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)									
	IND = 3.8 RES. = 0.43	IND = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7.8 RES. = 0.88	IND. = 7.8 RES = 0.88	IND = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3
‡ 605SB014 INTERVAL 02	20 6	0 49					0.25			
‡ 605SB015 INTERVAL 01	1.1	2 2		1,120			0.30			
‡ 605SB015 INTERVAL 02	10	0.5		429			0.79		0.24	
‡ 605SB016	ANALYTICAL DATA NOT YET AVAILABLE									
‡ 605SB017 INTERVAL 01	5 2	0.46					0 16			
‡ 605SB017 INTERVAL 02	5.2	0.48					0.13			

‡ Second round samples

TABLE A

Sheet 4 of 4

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
Miscellaneous samples								
N/A	SPORT0074-1	NBCE005Z000100	N/A	06-12-96	I	Water	N/A	Footnote 2
N/A	SPORT0074-2	NBCE005Z000200	N/A	06-12-96	I	Water	N/A	Footnote 2
N/A	SPORT0074-3	NBCE005V000100	N/A	06-12-96	I	Concrete	N/A	Footnote 3
First round samples (collected following completion of initial excavation)								
1	SPORT0416-1	NBCE005S000402	02	04-11-97	C	Soil	3030	
2	SPORT0416-2	NBCE005S000502	02	04-11-97	C	Soil	5150	
3	SPORT0416-3	NBCE005S000602	02	04-11-97	C	Soil	6750	
4	SPORT0416-4	NBCE005S000702	02	04-11-97	C	Soil	12000	
5	SPORT0416-5	NBCE005S000802	02	04-11-97	C	Soil	4830	
6	SPORT0416-6	NBCE005S000902	02	04-11-97	C	Soil	2610	
7	SPORT0416-7	NBCE005S001002	02	04-11-97	C	Soil	1750	
8	SPORT0416-8	NBCE005S001102	02	04-11-97	C	Soil	1340	
9	SPORT0416-9	NBCE005S001202	02	04-11-97	C	Soil	517	

TABLE B

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
10	SPORT0416-10	NBCE005S001302	02	04-11-97	C	Soil	199	
11	SPORT0416-11	NBCE005S001402	02	04-11-97	C	Soil	2500	
12	SPORT0416-12	NBCE005S001502	02	04-11-97	C	Soil	5140	
13	SPORT0416-13	NBCE005S001602	02	04-14-97	C	Soil	6900	
14	SPORT0416-14	NBCE005S001702	02	04-14-97	C	Soil	1330	
15	SPORT0416-15	NBCE005S001802	02	04-14-97	C	Soil	2070	
16	SPORT0416-16	NBCE005S001902	02	04-14-97	C	Soil	502	
17	SPORT0416-17	NBCE005S002002	02	04-14-97	C	Soil	748	
18	SPORT0416-18	NBCE005S001501	01	04-14-97	C	Soil	10100	
19	SPORT0416-19	NBCE005S001401	01	04-14-97	C	Soil	8240	
20	SPORT0416-20	NBCE005S001601	01	04-14-97	C	Soil	15100	
21	SPORT0416-21	NBCE005S001301	01	04-14-97	C	Soil	6750	
22	SPORT0416-22	NBCE005S000901	01	04-14-97	C	Soil	11200	
23	SPORT0416-23	NBCE005S001701	01	04-14-97	C	Soil	14200	

TABLE B

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
24	SPORT0416-24	NBCE005S001001	01	04-14-97	C	Soil	2420	
25	SPORT0416-25	NBCE005S001101	01	04-14-97	C	Soil	36700	
26	SPORT0416-26	NBCE005S001801	01	04-14-97	C	Soil	26900	
27	SPORT0416-27	NBCE005S001201	01	04-14-97	C	Soil	1920	
28	SPORT0416-28	NBCE005S001901	01	04-14-97	C	Soil	1820	
29	SPORT0416-29	NBCE005S002001	01	04-14-97	C	Soil	822	
Additional first round samples (collected following removal of Building # 1435)								
30	SPORT0434-1	NBCE005S002102	02	05-06-97	C	Soil	4680	
31	SPORT0434-2	NBCE005S002202	02	05-06-97	C	Soil	594	
32	SPORT0434-3	NBCE005S002301	01	05-05-97	I	Soil	1460	
33	SPORT0434-4	NBCE005S002401	01	05-05-97	I	Soil	1370	
34	SPORT0434-5	NBCE005S002501	01	05-05-97	I	Soil	1730	
35	SPORT0434-6	NBCE005S002601	01	05-05-97	I	Soil	844	
36	SPORT0434-7	NBCE005S002701	01	05-06-97	I	Soil	4190	

TABLE B

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
37	SPORT0434-8	NBCE005S002801	01	05-06-97	I	Soil	5210	
38	SPORT0434-9	NBCE005S002901	01	05-06-97	I	Soil	71400	
39	SPORT0434-10	NBCE005S003001	01	05-06-97	I	Soil	11500	
40	SPORT0434-11	NBCE005S002302	02	05-05-97	I	Soil	343	
41	SPORT0434-12	NBCE005S002402	02	05-05-97	I	Soil	538	
42	SPORT0434-13	NBCE005S002502	02	05-05-97	I	Soil	209	
43	SPORT0434-14	NBCE005S002602	02	05-05-97	I	Soil	342	
44	SPORT0434-15	NBCE005S002702	02	05-06-97	I	Soil	3790	
45	SPORT0434-16	NBCE005S002802	02	05-06-97	I	Soil	3010	
46	SPORT0434-17	NBCE005S002902	02	05-06-97	I	Soil	8300	
47	SPORT0434-19	NBCE005S003002	02	05-06-97	I	Soil	2230	
Second round samples (collected following additional excavation)								
48	SPORT0456-1	NBCE005S003101	01	06-03-97	C	Soil	1310	
49	SPORT0456-2	NBCE005S003102	02	06-03-97	C	Soil	571	
TABLE B								Sheet 4 of 8

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
50	SPORT0456-3	NBCE005S003201	01	06-03-97	C	Soil	4340	
51	SPORT0456-4	NBCE005S003202	02	06-03-97	C	Soil	258	
52	SPORT0456-5	NBCE005S003301	01	06-03-97	C	Soil	41700	
53	SPORT0456-6	NBCE005S003302	02	06-03-97	C	Soil	1030	
54	SPORT0456-7	NBCE005S003401	01	06-03-97	C	Soil	20900	
55	SPORT0456-8	NBCE005S003402	02	06-03-97	C	Soil	9250	
56	SPORT0456-9	NBCE005S003501	01	06-03-97	C	Soil	5630	
57	SPORT0456-10	NBCE005S003502	02	06-03-97	C	Soil	6130	
58	SPORT0456-11	NBCE005S003601	01	06-03-97	C	Soil	2890	
59	SPORT0456-12	NBCE005S003602	02	06-03-97	C	Soil	238	
60	SPORT0456-13	NBCE005S003701	01	06-03-97	C	Soil	4330	
61	SPORT0456-15	NBCE005S003702	02	06-03-97	C	Soil	1250	
62	SPORT0456-16	NBCE005S003901	01	06-03-97	C	Soil	337	
63	SPORT0456-17	NBCE005S004001	01	06-03-97	C	Soil	6170	
TABLE B								Sheet 5 of 8

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
Additional second round samples (collected following rain delay)								
64	SPORT0465-1	NBCE005S004102	02	06-17-97	C	Soil	195	
65	SPORT0465-2	NBCE005S004101	01	06-17-97	C	Soil	2050	
66	SPORT0465-3	NBCE005S004201	01	06-17-97	C	Soil	533	
67	SPORT0465-4	NBCE005S004301	01	06-17-97	C	Soil	499	
Third round samples (collected following additional excavation)								
68	SPORT0555-1	NBCE005S004401	01	10-23-97	C	Soil	210	
69	SPORT0555-2	NBCE005S004501	01	10-23-97	C	Soil	1930	
70	SPORT0555-3	NBCE005S004601	01	10-23-97	C	Soil	337	
71	SPORT0555-4	NBCE005S004701	01	10-23-97	C	Soil	898	
72	SPORT0555-5	NBCE005S004702	02	10-23-97	C	Soil	8	
73	SPORT0555-6	NBCE005S004801	01	10-23-97	C	Soil	120	
74	SPORT0555-7	NBCE005S004802	02	10-23-97	C	Soil	1300	
75	SPORT0555-8	NBCE005S004901	01	10-23-97	C	Soil	1840	
TABLE B								Sheet 6 of 8

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
76	SPORT0555-9	NBCE005S005001	01	10-23-97	C	Soil	365	
77	SPORT0555-10	NBCE005S005101	01	10-23-97	C	Soil	306	
78	SPORT0555-11	NBCE005S005201	01	10-23-97	C	Soil	4840	
79	SPORT0555-12	NBCE005S005301	01	10-23-97	C	Soil	2320	
Fourth round samples (collected following additional excavation)								
80	SPORT0565-1	NBCE005S005401	01	11-10-97	C	Soil	2150	
81	SPORT0565-2	NBCE005S005501	01	11-10-97	C	Soil	1630	
82	SPORT0565-3	NBCE005S005601	01	11-10-97	C	Soil	1140	
83	SPORT0565-4	NBCE005S005702	02	11-10-97	C	Soil	1380	
84	SPORT0565-5	NBCE005S005801	01	11-10-97	C	Soil	4620	
Miscellaneous samples								
N/A	SPORT0569-1	NBCE005S005401	01	11-10-97	I	Soil	N/A	Footnote 4
N/A	SPORT0569-2	NBCE005S005801	01	11-10-97	I	Soil	N/A	Footnote 4

TABLE B

SWMU 5 IM SAMPLING RESULTS								
SAMPLE ID			SAMPLE INTERVAL	SAMPLE DATE	SAMPLE TYPE (Footnote 1)	MATRIX	ANALYSES	
MAP SYMBOL #	SPORT #	DET #					TOTAL LEAD (PPM)	OTHER
Fifth round samples (collected following additional excavation)								
85	SPORT0576-1	NBCE005S005901	01	11-25-97	C	Soil	1270	
86	SPORT0576-2	NBCE005S006001	01	11-25-97	C	Soil	698	
87	SPORT0576-3	NBCE005S006101	01	11-25-97	C	Soil	657	
88	SPORT0576-4	NBCE005S006202	02	11-25-97	C	Soil	258	
TABLE B								Sheet 8 of 8

Footnotes:

1) I = Investigatory sample and C = Confirmatory sample.

2) These samples were analyzed for total metals and pH and are referred to in Sections 1.3 and 4.1.1 of this report. For analytical results, refer to data sheets in Appendix C which correspond to the SPORT sample ID numbers listed.

3) This sample was analyzed for total metals and was referred to in Sections 1.3 and 4.1.1 of this report. For analytical results, refer to data sheets in Appendix C which correspond to the SPORT sample ID number listed.

4) These samples were analyzed for leachable lead (TCLP) and are referred to in Sections 2.3.4 and 4.1.1 of this report. For analytical results, refer to data sheets in Appendix C which correspond to the SPORT sample ID numbers listed.

SWMU 18 SOIL SAMPLE RESULTS WHICH EXCEED RBC TABLE LEVELS

SAMPLE	Arsenic	Beryllium	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Dibenz (a, h) anthracene	N- nitrosomethyl ethylamine	N- nitroso pyrrolidine	3, 3-Dimethyl benzidine	2-Naphthylamine
	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)										
	IND. = 3.8 RES. = 0.43	IND. = 1 3 RES. = 0.15	IND. = 1300 RES. = 400	IND. = 7.8 RES. = 0.88	IND. = 7.8 RES. = 0.88	IND = 0.78 RES. = 0.088	IND. = 0 78 RES. = 0.088	IND. = 0.26 RES. = 0.029	IND. = 2 7 RES. = 0.3	IND. = 0 62 RES. = 0.069	IND. = 0 044 RES. = 0.0049
018SB001 INTERVAL 01	3.5		404		0.91	0 54	0 14				
018SB002 INTERVAL 01	3 2										
018SB002 INTERVAL 02	4.7	0.29									
018SB003 INTERVAL 01	6.8	0.43				0.15					
018SB003 INTERVAL 02	8.4	0.86				0 15					
018SB004 INTERVAL 01	6.6	0 47	1,960	0.97	1.6	1	0.30				
018SB005 INTERVAL 01	7.8	0.46	680			0 12					
† 018CB005 INTERVAL 01	7.4	0.46	724					0.70		0.70	0 70
018SB005 INTERVAL 02	4 8	0.26									
† 018CB005 INTERVAL 02	8	0 31							0.77		

Shaded blocks represent lead concentrations which are in excess of 1300 ppm.
† Duplicate soil samples.

TABLE C

Sheet 1 of 1

LAIDLAW HAZARDOUS WASTE 20 CU. YD. ROLL OFF BOXES FROM SWMU 5 WORK SITE

DATE DELIVERED	DATE LOADED	DATE PICKED UP	WORK ORDER #	MANIFEST DOC #	DET HH #	WEIGHT (LBS)	VOLUME (TONS)
3-31-97	3-31-97	3-31-97	216575	13164	7087HH01	32780	16.39
4-1-97	4-1-97	4-2-97	216576	13168	7092HH01	27680	13.84
4-1-97	4-2-97	4-7-97	216577	13177	7092HH02	27680	13.84
4-1-97	4-2-97	4-7-97	216578	13178	7092HH03	27060	13.53
4-2-97	4-3-97	4-10-97	216579	13185	7093HH03	26880	13.44
4-7-97	4-9-97	4-10-97	216580	13186	7099HH01	28040	14.02
4-7-97	4-9-97	4-10-97	216581	13187	7099HH02	29680	14.84
4-10-97	4-10-97	4-11-97	216582	13188	7100HH01	24540	12.27
5-17-97	5-21-97	5-27-97	217277	13200	7141HH01	32980	16.49
5-17-97	5-21-97	5-27-97	217278	13201	7141HH02	32420	16.21
5-17-97	5-22-97	5-28-97	217279	13202	7141HH03	30380	15.19
5-17-97	5-22-97	5-28-97	217280	13203	7141HH04	31620	15.81
5-27-97	5-28-97	5-29-97	217286	13204	7148HH01	35560	17.78
5-27-97	5-28-97	5-29-97	217285	13205	7148HH03	32,480	16.24

TABLE D

LAIDLAW HAZARDOUS WASTE 20 CU. YD. ROLL OFF BOXES FROM SWMU 5 WORK SITE

DATE DELIVERED	DATE LOADED	DATE PICKED UP	WORK ORDER #	MANIFEST DOC #	DET HH #	WEIGHT (LBS)	VOLUME (TONS)
5-29-97	5-29-97	5-30-97	217287	13206	7149HH01	46,880	23.44
5-28-97	5-29-97	5-30-97	217288	13207	7149HH02	44,220	22.11
5-28-97	5-28-97	6-6-97	217698	13216	7148HH02	39,740	19.87
5-29-97	5-29-97	5-30-97	217290	13209	7149HH03	45,740	22.87
5-30-97	5-30-97	6-20-97	217920	13217	7150HH01	35,380	17.69
5-30-97	5-30-97	5-30-97	217289	13208	7150HH02	35,180	17.59
5-30-97	6-2-97	6-20-97	217921	13218	7153HH01	33,140	16.57
6-6-97	6-17-97	8-12-97	219557	13229	7167HH02	33,860	16.93
10-6-97	10-6-97	10-7-97	221279	13236	7279HH01	32,800	16.4
10-7-97	10-8-97	10-9-97	221280	13237	7281HH01	35,300	17.65
10-10-97	10-10-97	10-10-97	221281	13239	7283HH01	35,180	17.59
8-12-97	10-97	10-10-97	221282	13238	7279HH02	34,620	17.31
10-9-97	10-97	11-6-97	222330	13268	7283HH02	29,040	14.52
11-6-97	11-97	11-18-97	222779	13276	7311HH01	34,860	17.43

TABLE D

LAIDLAW HAZARDOUS WASTE 20 CU. YD. ROLL OFF BOXES FROM SWMU 5 WORK SITE

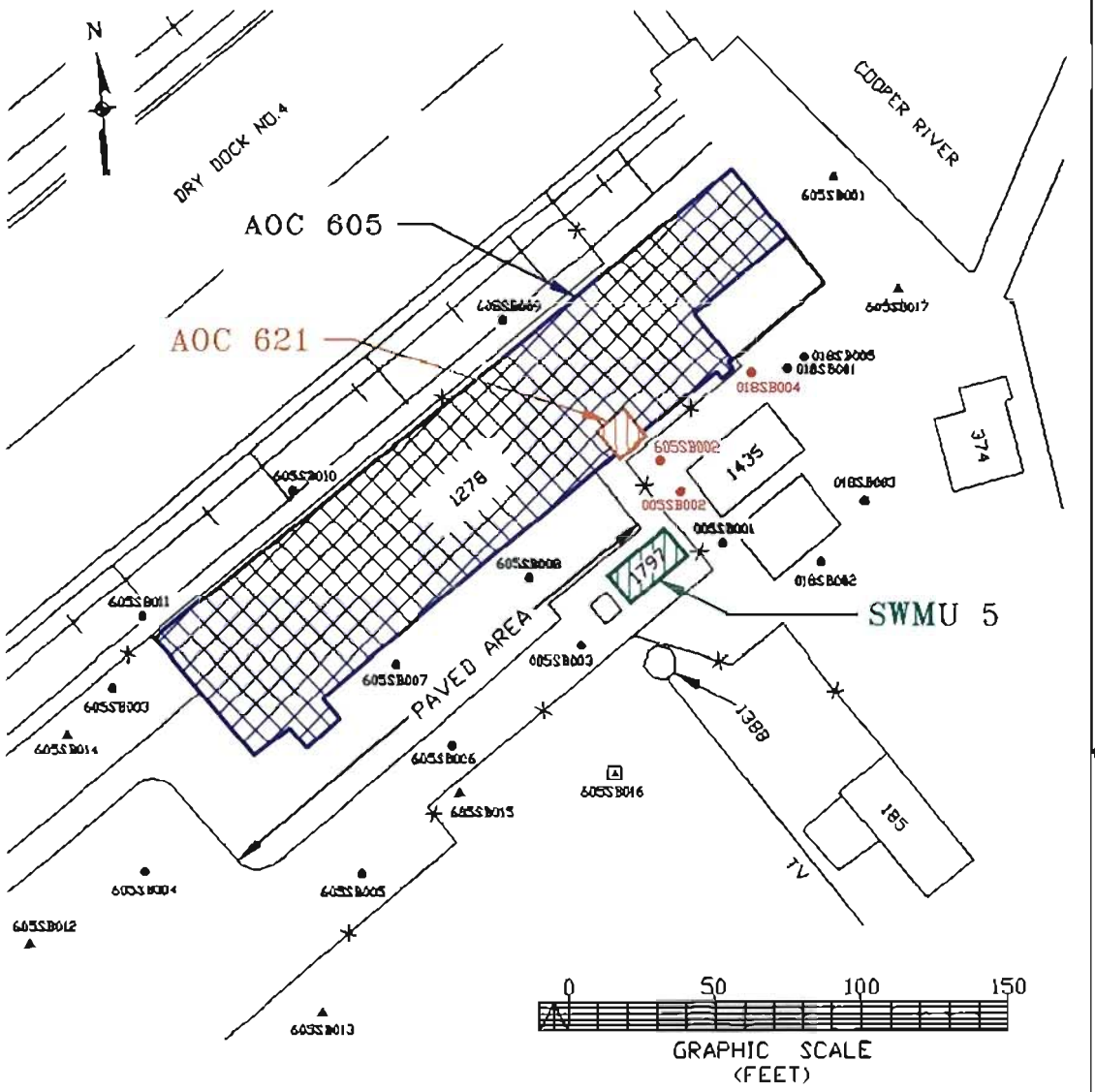
DATE DELIVERED	DATE LOADED	DATE PICKED UP	WORK ORDER #	MANIFEST DOC #	DET HH #	WEIGHT (LBS)	VOLUME (TONS)
10-10-97	11-97	11-20-97	222780	13278	7309HH08	31,160	15.58
11-20-97	11-97	12-15-97	223148	13289	7324HH01	27,660	13.83
11-18-97	11-97	12-15-97	223149	13290	7325HH01	25,140	12.57
					TOTALS	**1,019,680**	**509.84**

TABLE D

Sheet 3 of 3

APPENDIX B

SITE MAPS



NOTES:

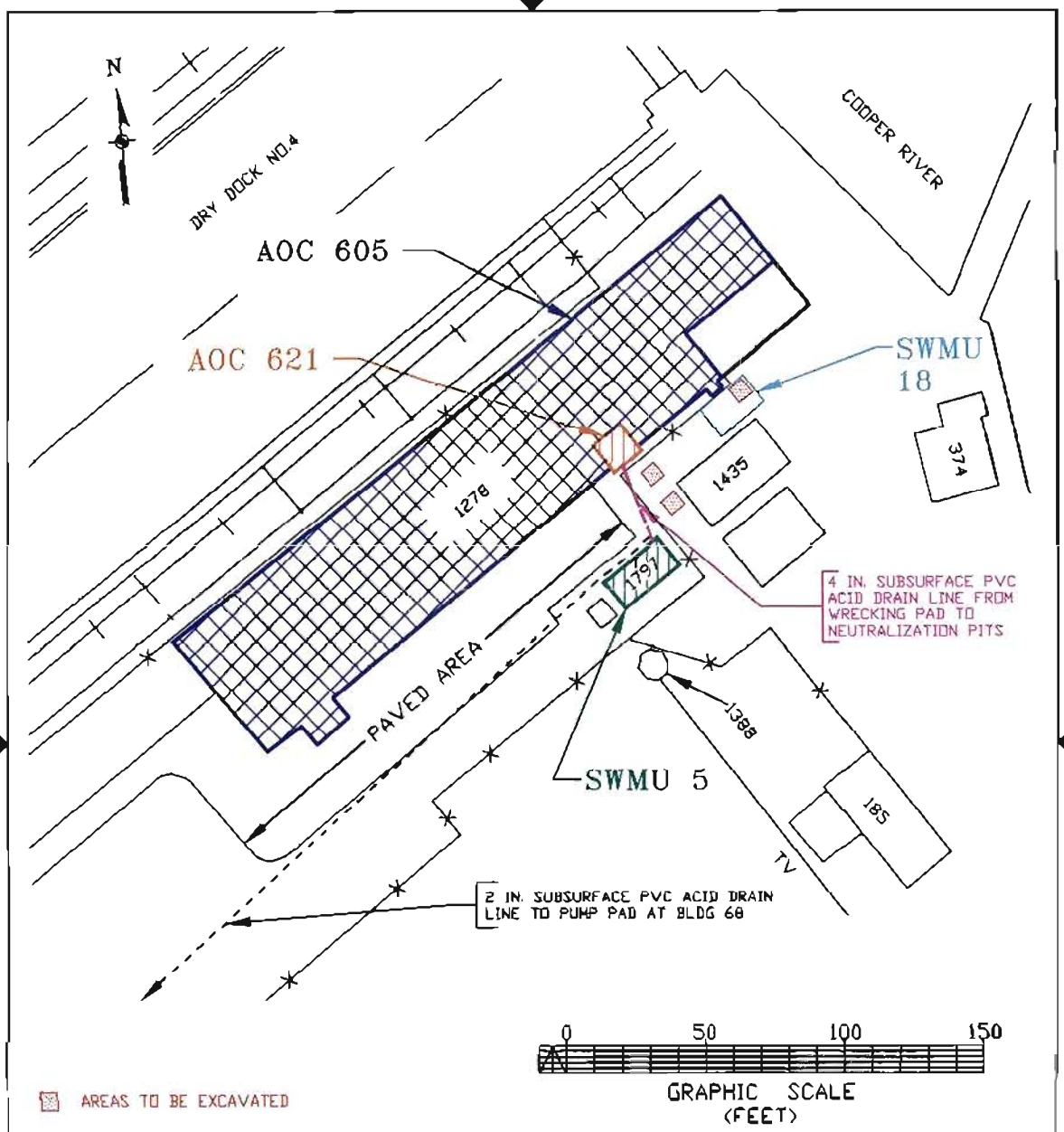
- ● FIRST ROUND RFI SOIL SAMPLE LOCATIONS WITH LEAD CONCENTRATIONS GREATER THAN 1300 PPM.
- ● FIRST ROUND RFI SOIL SAMPLE LOCATIONS WITH LEAD CONCENTRATIONS LESS THAN 1300 PPM.
- ▲ SECOND ROUND RFI SOIL SAMPLE LOCATIONS WITH LEAD CONCENTRATIONS LESS THAN 1300 PPM.
- ⊡ SECOND ROUND RFI SOIL SAMPLE LOCATIONS. ANALYTICAL DATA NOT YET AVAILABLE.

ENVIRONMENTAL DETACHMENT CHARLESTON
1894 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

DRAWING TITLE

FIGURE 1
SWMU 5 COMPLETION REPORT
SITE MAP WITH RFI SAMPLE LOCATIONS

SIZE	DATE	PREPARED BY	REV
A	03-19-98	D. R. WORSE	-
SCALE -			SHEET 8-1



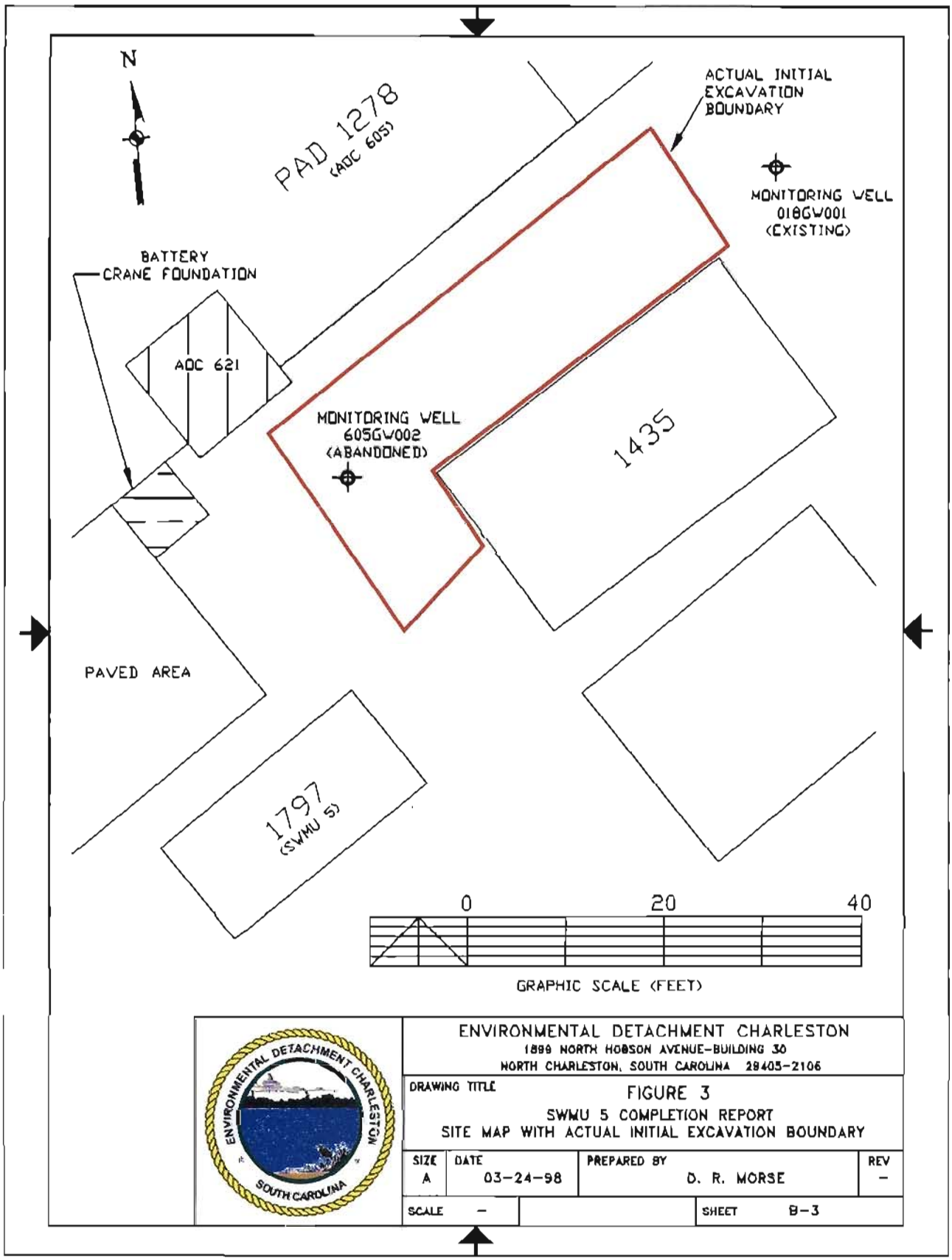
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2108

DRAWING TITLE

FIGURE 2

SWMU 5 COMPLETION REPORT
SITE MAP WITH DRAIN PIPING, SWMU 18
& ORIGINAL AREAS OF EXCAVATION

SIZE	DATE	PREPARED BY	REV
A	03-19-98	D. R. MORSE	-
SCALE -		SHEET B-2	



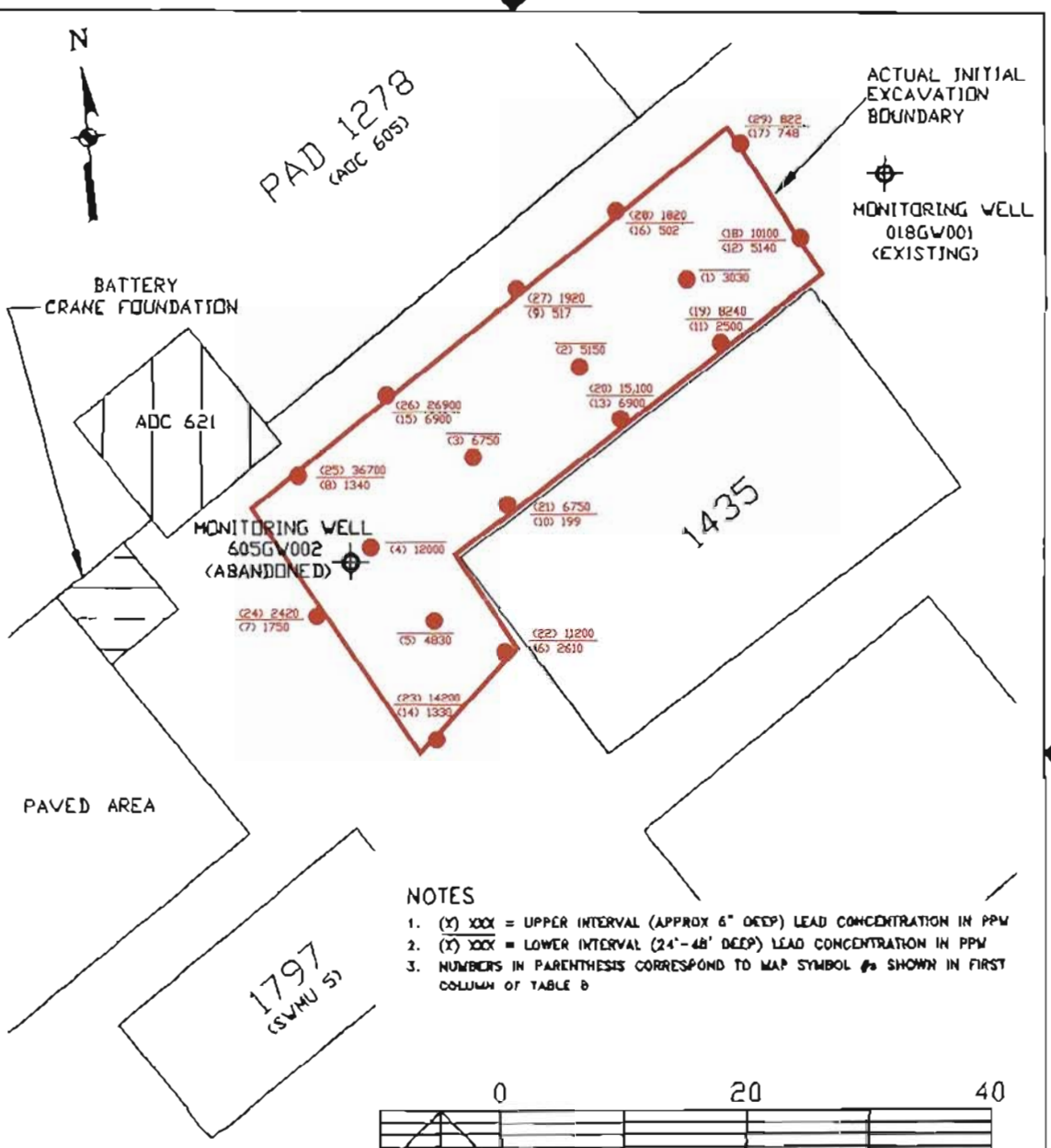
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

DRAWING TITLE

FIGURE 3
SWMU 5 COMPLETION REPORT
SITE MAP WITH ACTUAL INITIAL EXCAVATION BOUNDARY

SIZE	DATE	PREPARED BY	REV
A	03-24-98	D. R. MORSE	–

SCALE		SHEET
–		B-3



NOTES

1. (Y) XXX = UPPER INTERVAL (APPROX 6" DEEP) LEAD CONCENTRATION IN PPM
2. (Y) XXX = LOWER INTERVAL (24'-48' DEEP) LEAD CONCENTRATION IN PPM
3. NUMBERS IN PARENTHESIS CORRESPOND TO MAP SYMBOL #s SHOWN IN FIRST COLUMN OF TABLE 6

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

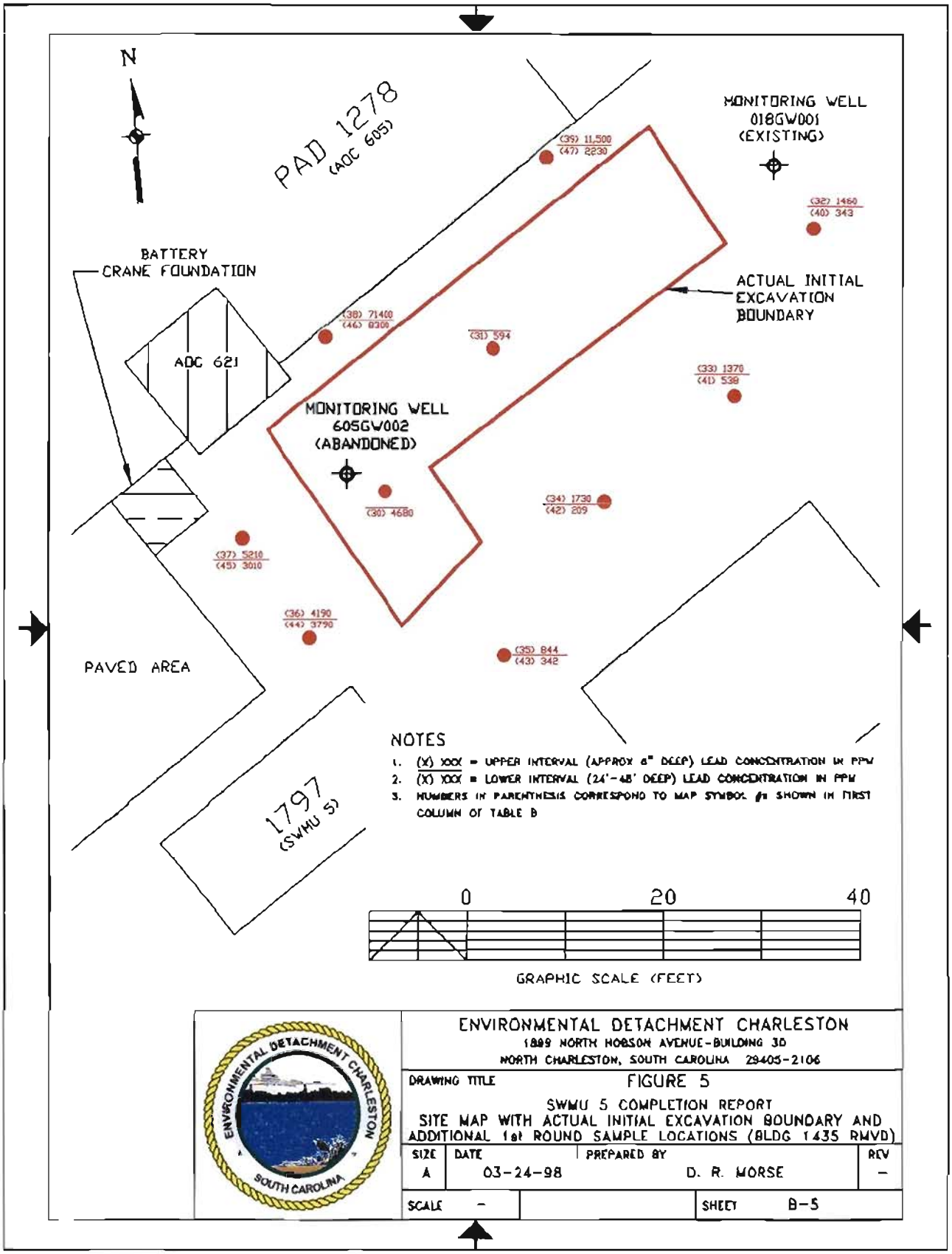
DRAWING TITLE: FIGURE 4

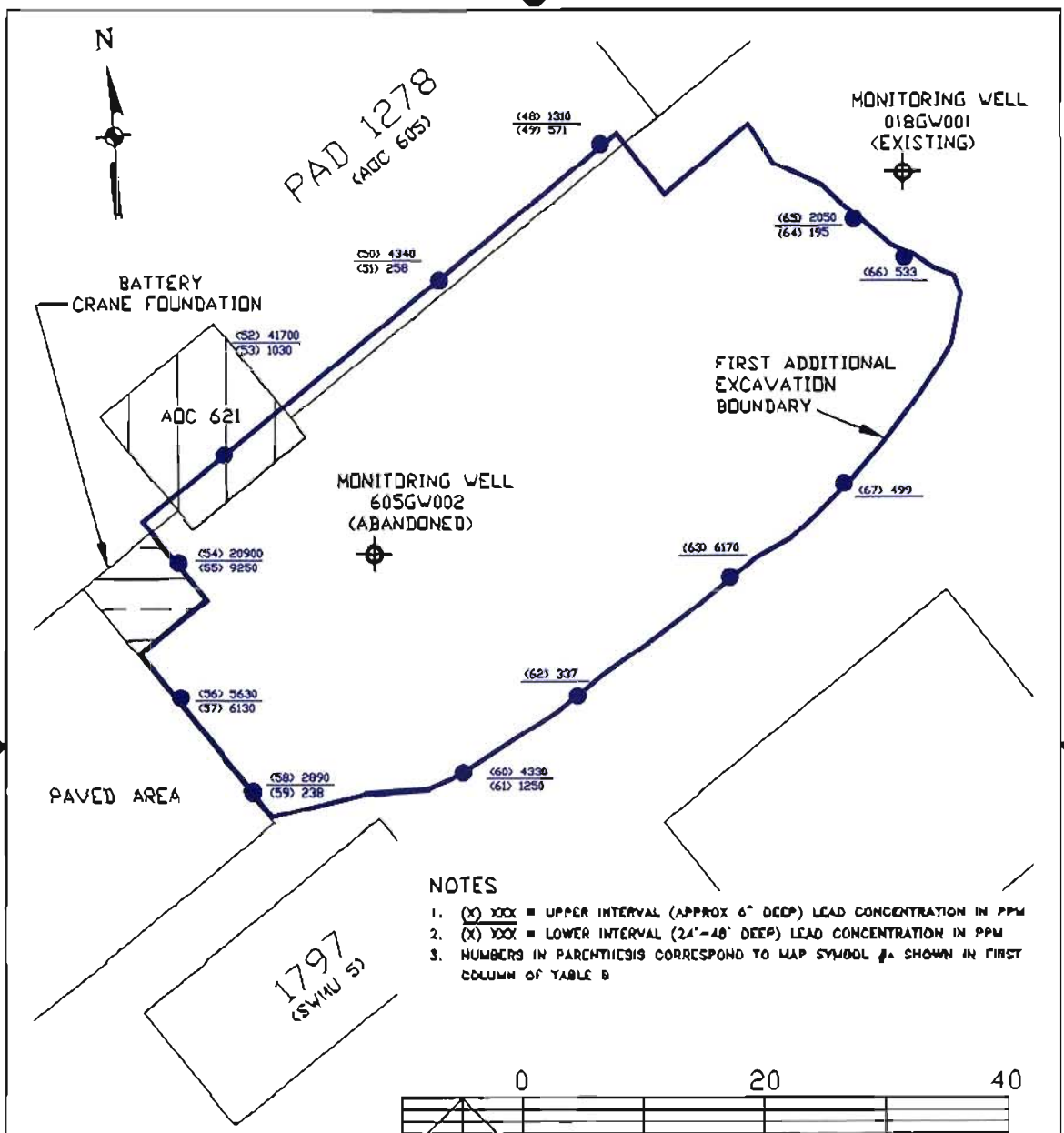
SWMU 5 COMPLETION REPORT
SITE MAP WITH ACTUAL INITIAL EXCAVATION BOUNDARY
AND FIRST ROUND SAMPLE LOCATIONS

SIZE	DATE	PREPARED BY	REV
A	03-24-98	D. R. MORSE	-

SCALE: -

SHEET: B-4


N
PAD 1278
(AOC 605)
MONITORING WELL
018GW001
(EXISTING)
(39) 11,500
(47) 2230
(32) 1460
(40) 343
BATTERY
CRANE FOUNDATION
ACTUAL INITIAL
EXCAVATION
BOUNDARY
(38) 71400
(46) 8300
(31) 594
AOC 621
(33) 1370
(41) 539
MONITORING WELL
605GW002
(ABANDONED)
(30) 4680
(34) 1730
(42) 209
(37) 5210
(45) 3010
(36) 4190
(44) 3790
(35) 844
(43) 342
PAVED AREA
1797
(SWMU 5)
NOTES
1. (X) XXX = UPPER INTERVAL (APPROX 6" DEEP) LEAD CONCENTRATION IN PPM
2. (X) XXX = LOWER INTERVAL (24'-48' DEEP) LEAD CONCENTRATION IN PPM
3. NUMBERS IN PARENTHESIS CORRESPOND TO MAP SYMBOL #s SHOWN IN FIRST COLUMN OF TABLE B
0
20
40
GRAPHIC SCALE (FEET)
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106
DRAWING TITLE
FIGURE 5
SWMU 5 COMPLETION REPORT
SITE MAP WITH ACTUAL INITIAL EXCAVATION BOUNDARY AND ADDITIONAL 1st ROUND SAMPLE LOCATIONS (BLDG 1435 RMVD)
SIZE A
DATE 03-24-98
PREPARED BY D. R. MORSE
REV -
SCALE -
SHEET B-5



ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

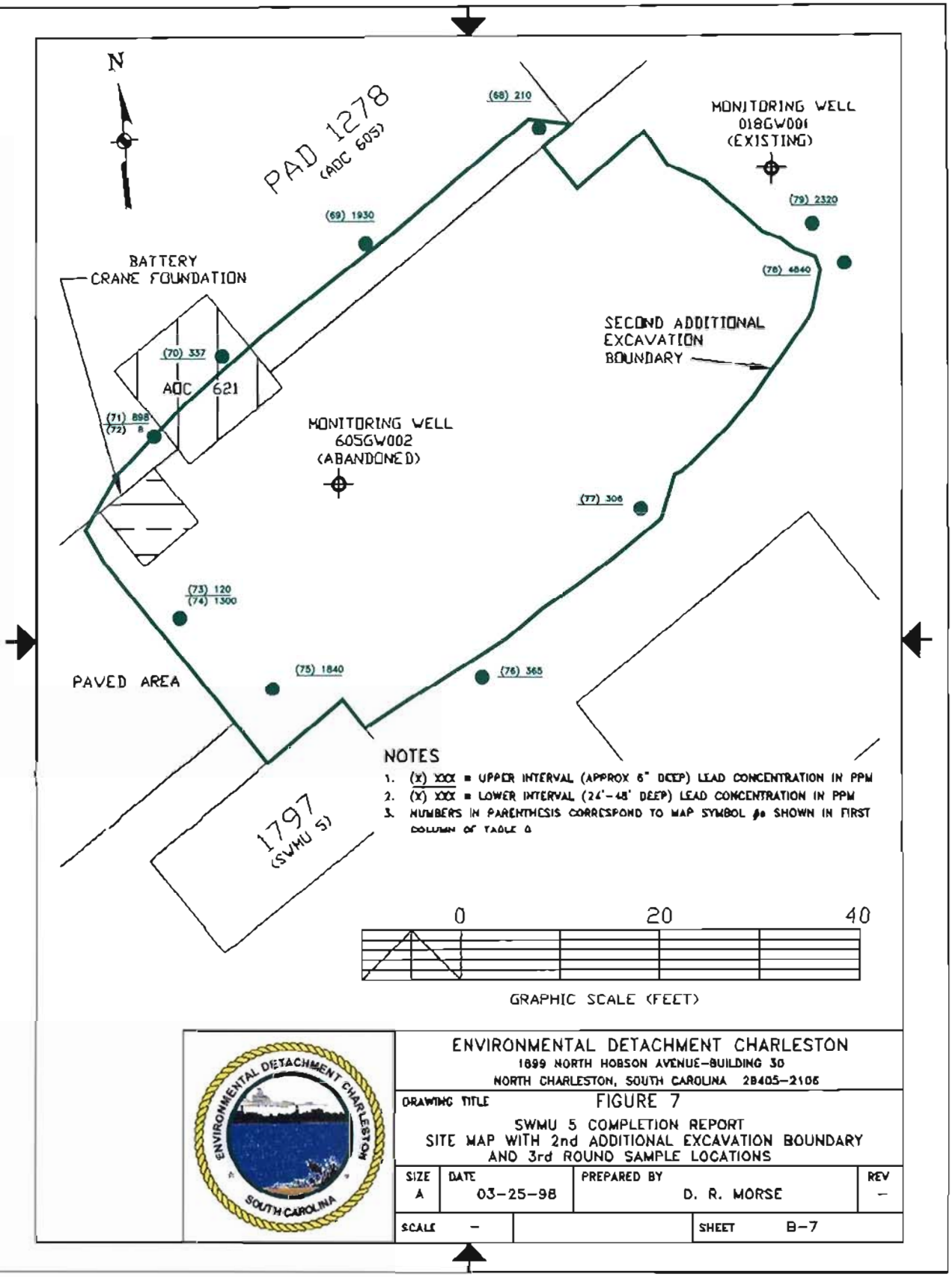
DRAWING TITLE

FIGURE 6

SWMU 5 COMPLETION REPORT
SITE MAP WITH 1st ADDITIONAL EXCAVATION BOUNDARY
AND 2nd ROUND SAMPLE LOCATIONS

SIZE	DATE	PREPARED BY	REV
A	03-25-98	D. R. MORSE	-

SCALE		SHEET
-		B-6



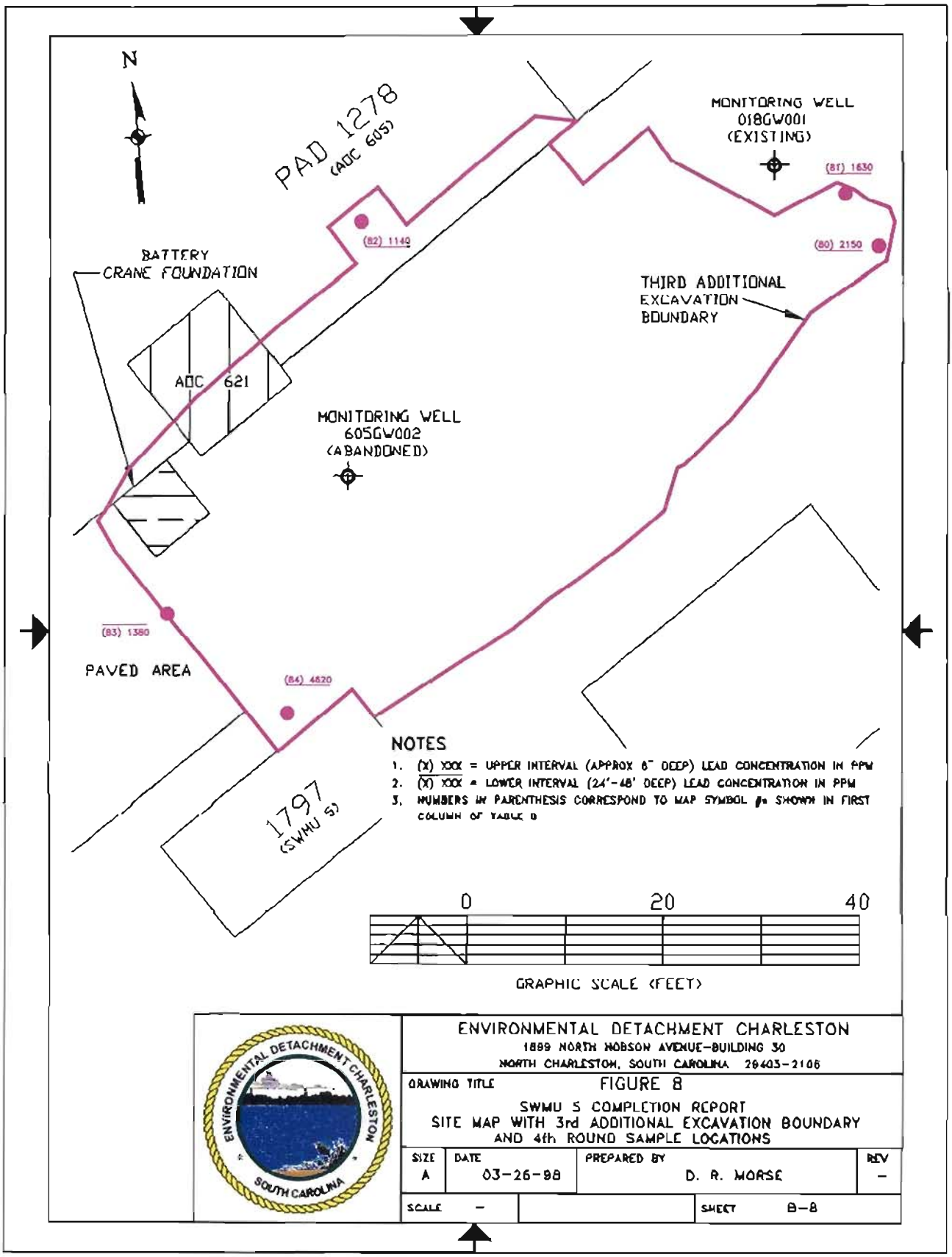
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE–BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405–2106

DRAWING TITLE: FIGURE 7

SWMU 5 COMPLETION REPORT
SITE MAP WITH 2nd ADDITIONAL EXCAVATION BOUNDARY
AND 3rd ROUND SAMPLE LOCATIONS

SIZE	DATE	PREPARED BY	REV
A	03-25-98	D. R. MORSE	–

SCALE		SHEET
–		B-7



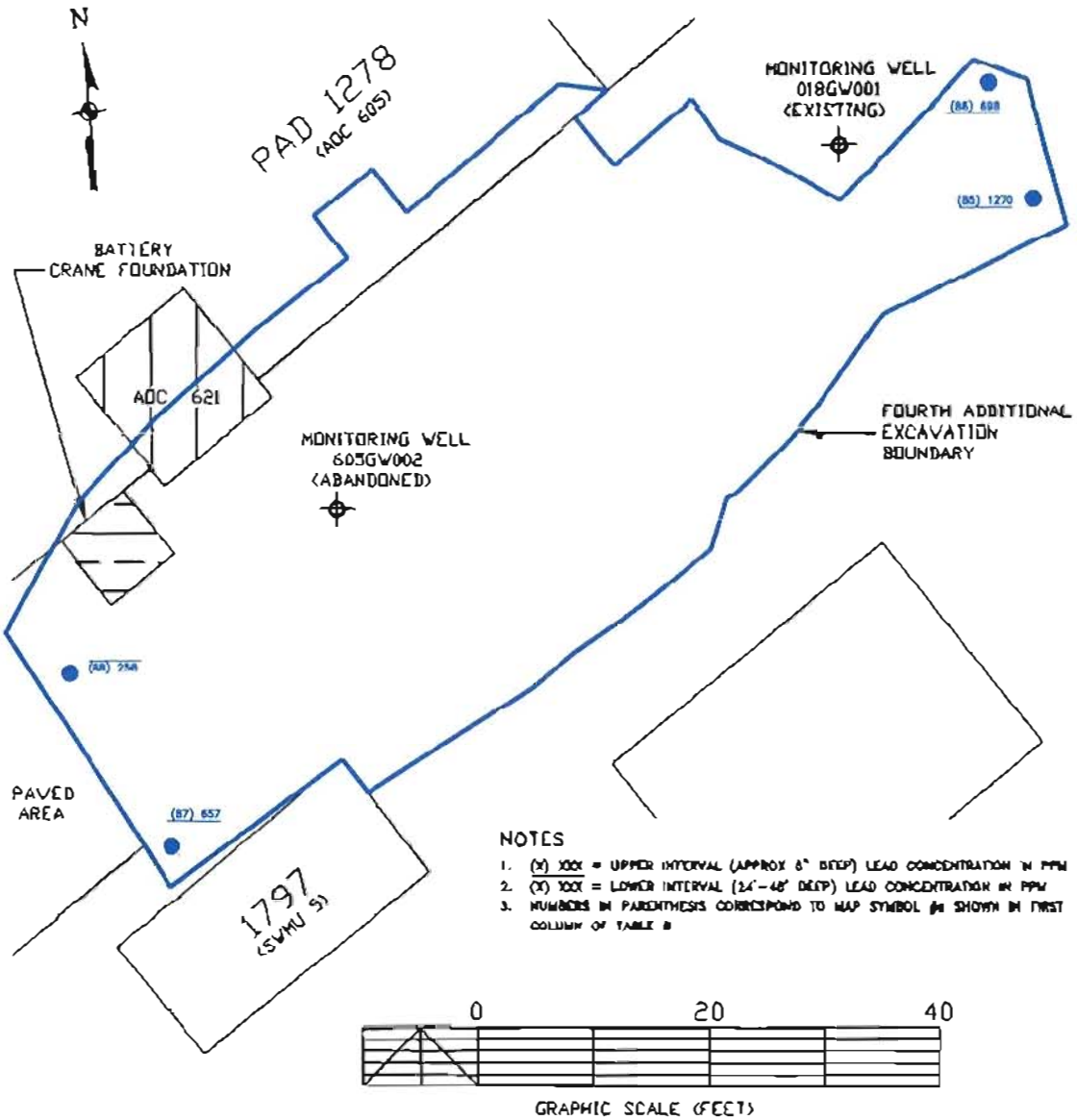
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH NOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

DRAWING TITLE: FIGURE 8

SWMU 5 COMPLETION REPORT
SITE MAP WITH 3rd ADDITIONAL EXCAVATION BOUNDARY
AND 4th ROUND SAMPLE LOCATIONS

SIZE	DATE	PREPARED BY	REV
A	03-26-98	D. R. MORSE	-

SCALE		SHEET
-		8-8



ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

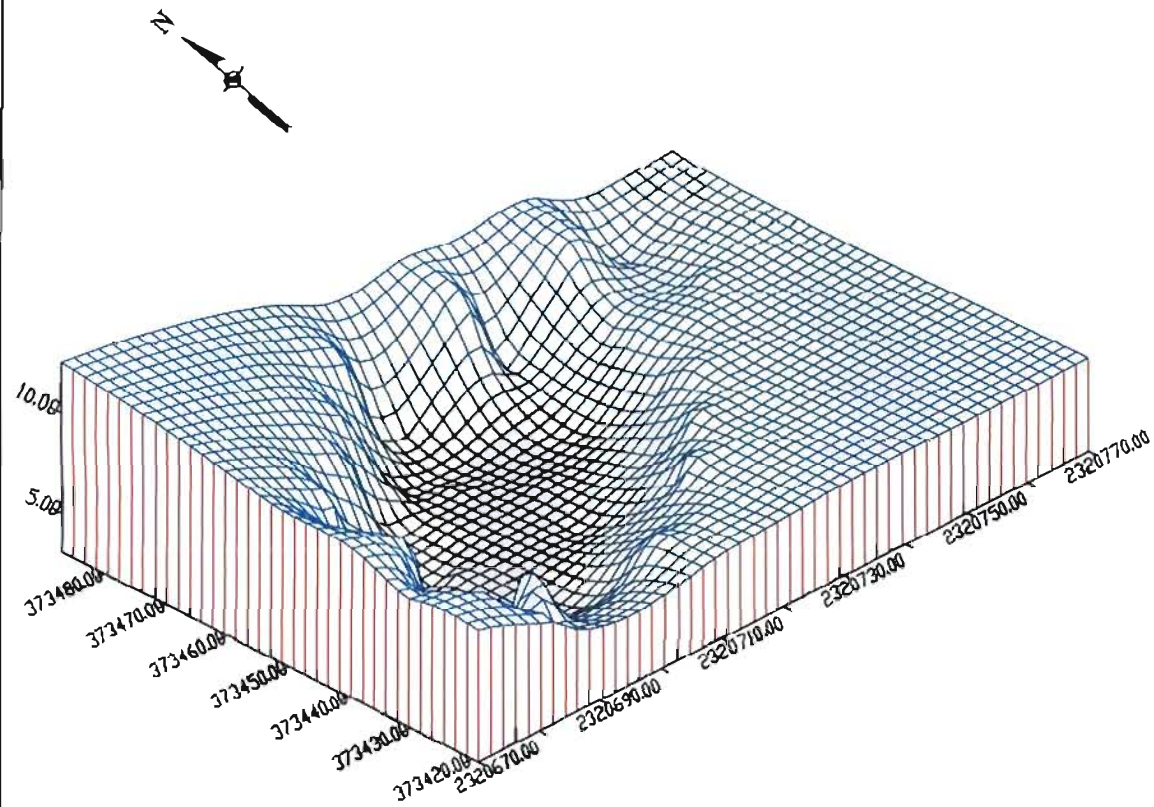
DRAWING TITLE: FIGURE 9

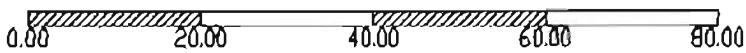
SWMU 5 COMPLETION REPORT
SITE MAP WITH 4th ADDITIONAL EXCAVATION BOUNDARY
AND 5th ROUND SAMPLE LOCATIONS

SIZE	DATE	PREPARED BY	REV
A	03-26-98	D. R. MORSE	-

SCALE: -

SHEET: B-9





GRAPHIC SCALE (FEET)

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE-BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

DRAWING TITLE

FIGURE 10
SWMU 5 COMPLETION REPORT
3-D TOPOGRAPHIC SITE MAP OF FINAL EXCAVATION

SIZE	DATE	PREPARED BY	REV
A	03-30-98	D. R. MORSE	-
SCALE -		SHEET	8-10

APPENDIX C

SAMPLING DOCUMENTATION

General Engineering [illegible] ...nes, Inc
2040 Savage Road
Charleston, South Caro... 414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of +3 DRM

CHAIN OF CUSTODY RECORD

3 DAY TURNAROUND

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORTΦ416-1	4-11-97	1110		X		X	1							X											NBCE005S000402
SPORTO416-2	4-11-97	1117		X		X	1							X											NBCE005S000502
SPORTO416-3	4-11-97	1121		X		X	1							X											NBCE005S000602
SPORTO416-4	4-11-97	1149		X		X	1							X											NBCE005S000702
SPORTO416-5	4-11-97	1201		X		X	1							X											NBCE005S000802
SPORTO416-6	4-11-97	1212		X		X	1							X											NBCE005S000902
SPORTO416-7	4-11-97	1223		X		X	1							X											NBCE005S001002
SPORTO416-8	4-11-97	1234		X		X	1							X											NBCE005S001102
SPORTO416-9	4-11-97	1244		X		X	1							X											NBCE005S001202
SPORTO416-10	4-11-97	1253		X		X	1							X											NBCE005S001302
SPORTO416-11	4-11-97	1301		X		X	1							X											NBCE005S001402
SPORTO416-12	4-11-97	1309		X		X	1							X											NBCE005S001502
SPORTO416-13	4-14-97	1113		X		X	1							X											NBCE005S001602

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Sandra Morse	4/15/97	0930	W.R. Hiers, Jr.	W.R. Hiers, Jr.	4/15/97	1044	V. Lockhart
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	

White = sample collector Yellow = file Pink = with report

General Engineering L ries, Inc
2040 Savage Road
Charleston, South Carolina 29414
P O Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 2 of 3

CHAIN OF CUSTODY RECORD

3 DAY TURNAROUND

Client Name/Facility Name: SPARTENVDETCHASN
Collected by/Company: SPARTENVDETCHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify, Method required	METALS - specify LEAD	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPARTOA16-14	4-14-97	1122		X	X		1							X											NBCE005S001702
SPARTOA16-15	4-14-97	1130		X	X		1							X											NBCE005S001802
SPARTOA16-16	4-14-97	1138		X	X		1							X											NBCE005S001902
SPARTOA16-17	4-14-97	1147		X	X		1							X											NBCE005S002002
SPARTOA16-18	4-14-97	1203		X	X		1							X											NBCE005S001501
SPARTOA16-19	4-14-97	1214		X	X		1							X											NBCE005S001401
SPARTOA16-20	4-14-97	1220		X	X		1							X											NBCE005S001601
SPARTOA16-21	4-14-97	1227		X	X		1							X											NBCE005S001301
SPARTOA16-22	4-14-97	1234		X	X		1							X											NBCE005S000901
SPARTOA16-23	4-14-97	1240		X	X		1							X											NBCE005S001701
SPARTOA16-24	4-14-97	1248		X	X		1							X											NBCE005S001001
SPARTOA16-25	4-14-97	1426		X	X		1							X											NBCE005S001101
SPARTOA16-26	4-14-97	1434		X	X		1							X											NBCE005S001801

Use L or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Frank Morse	4/15/97	0930	W.R. Hines, Jr.	W. R. Hines, Jr.	4/15/97	1044	
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	

White = sample collector Yellow = file Pink = with rep rt

General Engineering [illegible]ories, Inc
2040 Savage Road
Charleston, South Caro[illegible]a 2414
P O Box 30712
Charleston, South Carolina 29417
(803) 556 8171

CHAIN OF CUSTODY RECORD

3 DAY TURNAROUND

Client Name/Facility Name: SPORTENVDETCHASN
Collected by/Company: SPORTENVDETCHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORTO416-27	4-14-97	1439		X		X	1							X											NBCE005S001201
SPORTO416-28	4-14-97	1446		X		X	1							X											NBCE005S001901
SPORTO416-29	4-14-97	1451		X		X	1							X											NBCE005S002001

Use E or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Remarks:	Date:	Time:	Received by:
Dan L. Mobbs	4/15/97	0930	W. R. Hiers, Jr.	W. R. Hiers, Jr.	4/15/97	1044				
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:					

White = sample collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-1
Lab ID : 9704343-01
Matrix : Soil
Date Collected : 04/11/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		3030	1.80	4.95	mg/kg	1.0	JSS	04/16/97	1200	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(803) 556-8171 • Fax (803) 766-1178

9704343-01

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-2
Lab ID : 9704343-02
Matrix : Soil
Date Collected : 04/11/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		5150	1.77	4.85	mg/kg	1.0	JSS	04/16/97	1203	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-3
Lab ID	: 9704343-03
Matrix	: Soil
Date Collected	: 04/11/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		6750	1.75	4.81	mg/kg	1.0	JSS	04/16/97	1204	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-4
Lab ID	: 9704343-04
Matrix	: Soil
Date Collected	: 04/11/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		12000	1.78	4.90	mg/kg	1.0	JSS	04/16/97	1207	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
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9704343-04

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-5
Lab ID	: 9704343-05
Matrix	: Soil
Date Collected	: 04/11/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4830	1.78	4.90	mg/kg	1.0	JSS	04/16/97	1209	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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Karen Blakeney
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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-6
Lab ID : 9704343-06
Matrix : Soil
Date Collected : 04/11/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2610	1.70	4.67	mg/kg	1.0	JSS	04/16/97	1213	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

9704343-06

GENERAL ENGINEERING LABORATORIES

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-7
Lab ID : 9704343-07
Matrix : Soil
Date Collected : 04/11/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1750	1.78	4.90	mg/kg	1.0	JSS	04/16/97	1215	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
Reviewed By

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9704343-07

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-8
Lab ID	: 9704343-08
Matrix	: Soil
Date Collected	: 04/11/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1340	1.72	4.72	mg/kg	1.0	JSS	04/16/97	1217	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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9704343-08

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-9
Lab ID	: 9704343-09
Matrix	: Soil
Date Collected	: 04/11/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		517	1.78	4.90	mg/kg	1.0	JSS	04/16/97	1218	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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Karen Blakeney
Reviewed By

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9704343-09

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0416-10
Lab ID : 9704343-10
Matrix : Soil
Date Collected : 04/11/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		199	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1221	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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9704343-10

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID	: SPORT0416-11
Lab ID	: 9704343-11
Matrix	: Soil
Date Collected	: 04/11/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2500	1.75	4.81	mg/kg	1.0	JSS	04/16/97	1228	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-12
Lab ID	: 9704343-12
Matrix	: Soil
Date Collected	: 04/11/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		5140	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1230	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-13
Lab ID	: 9704343-13
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		6900	1.72	4.72	mg/kg	1.0	JSS	04/16/97	1232	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-14
Lab ID	: 9704343-14
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1330	1.75	4.81	mg/kg	1.0	JSS	04/16/97	1234	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Contact: Mr. Bill Hiers
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Sample ID : SPORT0416-15
Lab ID : 9704343-15
Matrix : Soil
Date Collected : 04/14/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2070	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1236	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-16
Lab ID	: 9704343-16
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		502	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1238	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-17
Lab ID : 9704343-17
Matrix : Soil
Date Collected : 04/14/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		748	1.72	4.72	mg/kg	1.0	JSS	04/16/97	1240	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-18
Lab ID	: 9704343-18
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		10100	1.75	4.81	mg/kg	1.0	JSS	04/16/97	1242	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-19
Lab ID : 9704343-19
Matrix : Soil
Date Collected : 04/14/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		8240	1.70	4.67	mg/kg	1.0	JSS	04/16/97	1244	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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1899 North Hobson Ave.
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-20
Lab ID	: 9704343-20
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		15100	1.77	4.85	mg/kg	1.0	JSS	04/16/97	1246	100675	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1430	100675	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997 Page 1 of 1

Sample ID : SPORT0416-21
Lab ID : 9704343-21
Matrix : Soil
Date Collected : 04/14/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		6750	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1328	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-22
Lab ID : 9704343-22
Matrix : Soil
Date Collected : 04/14/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		11200	1.72	4.72	mg/kg	1.0	JSS	04/16/97	1330	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-23
Lab ID	: 9704343-23
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		14200	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1332	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID : SPORT0416-24
Lab ID : 9704343-24
Matrix : Soil
Date Collected : 04/14/97
Date Received : 04/15/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2420	1.72	4.72	mg/kg	1.0	JSS	04/16/97	1341	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-25
Lab ID	: 9704343-25
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		36700	1.78	4.90	mg/kg	1.0	JSS	04/16/97	1342	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen Blakeney
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9704343-25

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-26
Lab ID	: 9704343-26
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		26900	1.72	4.72	mg/kg	1.0	JSS	04/16/97	1345	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-27
Lab ID	: 9704343-27
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1920	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1347	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-28
Lab ID	: 9704343-28
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1820	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1350	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 17, 1997

Sample ID	: SPORT0416-29
Lab ID	: 9704343-29
Matrix	: Soil
Date Collected	: 04/14/97
Date Received	: 04/15/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		822	1.75	4.81	mg/kg	1.0	JSS	04/16/97	1407	100676	1
The following prep procedures were performed:											
ICP							FGD	04/15/97	1500	100676	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9704343-29

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Page 1 of 2

CHAIN OF CUSTODY RECORD

– 3 DAY TURNAROUND –

Client Name/Facility Name: SPARTENVDET CHASN

Collected by/Company: SPARTENVDET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
														LEAD											
SPARTO434-1	5/6/97	1045		X		X	1							X											NBCE005S002102
SPARTO434-2	5/6/97	1030		X		X	1							X											NBCE005S002202
SPARTO434-3	5/5/97	1330		X		X	1							X											NBCE005S002301
SPARTO434-4	5/5/97	1350		X		X	1							X											NBCE005S002401
SPARTO434-5	5/5/97	1405		X		X	1							X											NBCE005S002501
SPARTO434-6	5/5/97	1428		X		X	1							X											NBCE005S002601
SPARTO434-7	5/6/97	0855		X		X	1							X											NBCE005S002701
SPARTO434-8	5/6/97	0912		X		X	1							X											NBCE005S002801
SPARTO434-9	5/6/97	0932		X		X	1							X											NBCE005S002901
SPARTO434-10	5/6/97	1000		X		X	1							X											NBCE005S003001
SPARTO434-11	5/5/97	1346		X		X	1							X											NBCE005S002302
SPARTO434-12	5/5/97	1400		X		X	1							X											NBCE005S002402
SPARTO434-13	5/5/97	1415		X		X	1							X											NBCE005S002502

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:
Dan L. Morse	5/6/97	1144	W.R. Hiers, Jr.
Relinquished by:	Date:	Time:	Received by lab by:

Relinquished by:	Date:	Time:	Remarks:	Date:	Time:	Received by:
W.R. Hiers, Jr.	5/6/97				1438	

White = sample collector Yellow = file Pink = with report

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Page 2 of 2

CHAIN OF CUSTODY RECORD

– 3 DAY TURNAROUND –

Client Name/Facility Name: SPORTENV DET CHASN

Collected by/Company: SPORTENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify LEAD	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORTO434-14	5/5/97	1440		X		X	1							X											NBCE005S002602
SPORTO434-15	5/6/97	0905		X		X	1							X											NBCE005S002702
SPORTO434-16	5/6/97	0925		X		X	1							X											NBCE005S002802
SPORTO434-17	5/6/97	0940		X		X	1							X											NBCE005S002902
SPORTO434-18	5/6/97	1000		X		X	1							X											NBCE005C003001 ~~NBCE005S003002~~ DRM 5/6/97
SPORTO434-19	5/6/97	1015		X		X	1							X											NBCE005S003002 ~~NBCE005C~~ DRM 5/6/97

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Dan L Morse	5/6/97	1144	W.R. Hiers, Jr.	W.R. Hiers, Jr.	5/6/97	1438	
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	

White = sample collector Yell w = file Pink = with report

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FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID	: SPORT0434-1
Lab ID	: 9705129-01
Matrix	: Soil
Date Collected	: 05/06/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4680	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1551	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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9705129-01

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SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID	: SPORT0434-2
Lab ID	: 9705129-02
Matrix	: Soil
Date Collected	: 05/06/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		594	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1345	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NFWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID	: SPORT434-3
Lab ID	: 9705129-03
Matrix	: Soil
Date Collected	: 05/05/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1460	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1346	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID : SPORT434-4
Lab ID : 9705129-04
Matrix : Soil
Date Collected : 05/05/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1370	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1348	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID : SPORT434-5
Lab ID : 9705129-05
Matrix : Soil
Date Collected : 05/05/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1730	1.82	5.00	mg/kg	1.0	ISS	05/08/97	1351	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID : SPORT434-6
Lab ID : 9705129-06
Matrix : Soil
Date Collected : 05/05/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		844	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1353	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID	: SPORT434-7
Lab ID	: 9705129-07
Matrix	: Soil
Date Collected	: 05/06/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4190	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1355	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
Reviewed By

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9705129-07

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID	: SPORT434-8
Lab ID	: 9705129-08
Matrix	: Soil
Date Collected	: 05/06/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		5210	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1423	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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9705129-08

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10512
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID	: SPORT434-9
Lab ID	: 9705129-09
Matrix	: Soil
Date Collected	: 05/06/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		71400	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1427	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9705129-09

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID	: SPORT434-10
Lab ID	: 9705129-10
Matrix	: Soil
Date Collected	: 05/06/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		11500	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1431	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9705129-10

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STATE	GEL	EPT
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID : SPORT434-11
Lab ID : 9705129-11
Matrix : Soil
Date Collected : 05/05/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		343	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1435	101796	1
The following prep procedures were performed:											
ICP							PGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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9705129-11

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID : SPORT434-12
Lab ID : 9705129-12
Matrix : Soil
Date Collected : 05/05/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		538	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1440	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9705129-12

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10382
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID	: SPORT434-13
Lab ID	: 9705129-13
Matrix	: Soil
Date Collected	: 05/05/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		209	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1444	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9705129-13

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID : SPORT434-14
Lab ID : 9705129-14
Matrix : Soil
Date Collected : 05/05/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		342	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1448	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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9705129-14

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87491
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID : SPORT434-15
Lab ID : 9705129-15
Matrix : Soil
Date Collected : 05/06/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		3790	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1452	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Reviewed By

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9705129-15

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87284	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID : SPORT434-16
Lab ID : 9705129-16
Matrix : Soil
Date Collected : 05/06/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		3010	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1456	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9705129-16

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87284	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID : SPORT434-17
Lab ID : 9705129-17
Matrix : Soil
Date Collected : 05/06/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		8300	1.82	5.00	mg/kg	1.0	ISS	05/08/97	1500	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9705129-17

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Laboratory Certifications

STATE	CHL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997

Sample ID	: SPORT434-18
Lab ID	: 9705129-18
Matrix	: Soil
Date Collected	: 05/06/97
Date Received	: 05/06/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		9490	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1554	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 09, 1997 Page 1 of 1

Sample ID : SPORT434-19
Lab ID : 9705129-19
Matrix : Soil
Date Collected : 05/06/97
Date Received : 05/06/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2230	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1556	101796	1
The following prep procedures were performed:											
ICP							FGD	05/08/97	1400	101796	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen Blakeney
Reviewed By

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(803) 556-8171 • Fax (803) 766-1178

9705129-19

General Engineering [illegible]ices, Inc
2040 Savage Road
Charleston, South Caro[illegible]414
P O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 2

CHAIN OF CUSTODY RECORD

— 3 DAY TURNAROUND —

Client Name/Facility Name: SPORTENVDETCHASN
Collected by/Company: SPORTENVDETCHASN

SAMPLE: ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify (LEAD-ICP)	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORTΦ456-1	6-3-97	Φ853		X		X	1							X											NBCEΦΦ5$ΦΦ31Φ1
SPORTΦ456-2	6-3-97	Φ9ΦΦ		X		X	1							X											NBCEΦΦ5$ΦΦ31Φ2
SPORTΦ456-3	6-3-97	Φ9Φ6		X		X	1							X											NBCEΦΦ5$ΦΦ32Φ1
SPORTΦ456-4	6-3-97	Φ911		X		X	1							X											NBCEΦΦ5$ΦΦ32Φ2
SPORTΦ456-5	6-3-97	Φ918		X		X	1							X											NBCEΦΦ5$ΦΦ33Φ1
SPORTΦ456-6	6-3-97	Φ925		X		X	1							X											NBCEΦΦ5$ΦΦ33Φ2
SPORTΦ456-7	6-3-97	Φ932		X		X	1							X											NBCEΦΦ5$ΦΦ34Φ1
SPORTΦ456-8	6-3-97	Φ942		X		X	1							X											NBCEΦΦ5$ΦΦ34Φ2
SPORTΦ456-9	6-3-97	Φ95Φ		X		X	1							X											NBCEΦΦ5$ΦΦ35Φ1
SPORTΦ456-1Φ	6-3-97	12ΦΦ		X		X	1							X											NBCEΦΦ5$ΦΦ35Φ2
SPORTΦ456-11	6-3-97	12Φ7		X		X	1							X											NBCEΦΦ5$ΦΦ36Φ1
SPORTΦ456-12	6-3-97	1215		X		X	1							X											NBCEΦΦ5$ΦΦ36Φ2
SPORTΦ456-13	6-3-97	1225		X		X	1							X											NBCEΦΦ5$ΦΦ37Φ1

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
J.D. Browder	6/3/97	1549	W.R. Hiers, Jr.	W.R. Hiers, Jr.	6/4/97	Φ922	W.R. Hiers, Jr.
W.R Hiers, Jr.	6/4/97	Φ922	R Desrosiers	6/4/0922			

Remarks:

White = sample collector Yellow = file Pink = with report

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Page 2 of 2

CHAIN OF CUSTODY RECORD

— 3 DAY TURNAROUND —

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD - ICP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORTΦ456-14	6-3-97	1225		X	X		1							X											NBCEΦΦ5IΦΦ38Φ1
SPORTΦ456-15	6-3-97	1231		X	X		1							X											NBCEΦΦ5$ΦΦ37Φ2
SPORTΦ456-16	6-3-97	1238		X	X		1							X											NBCEΦΦ5$ΦΦ39Φ1
SPORTΦ456-17	6-3-97	1246		X	X		1							X											NBCEΦΦ5$ΦΦ4ΦΦ1

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
J.D. Brawley	6/5/97	1549	W.R. Hiers, Jr.	W.R. Hiers, Jr.	6/4/97	0922	W.R. Hiers, Jr.
W.R. Hiers, Jr.	6/4/97	0922	[illegible]				

Received by (lab) by: [illegible] Date: 6-4-97 Time: 0922 Remarks:

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 09, 1997 Page 1 of 1

Sample ID : SPORT0456-1
Lab ID : 9706075-01
Matrix : Soil
Date Collected : 06/03/97
Date Received : 06/04/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1310	1.72	4.72	mg/kg	1.0	JSS	06/05/97	1600	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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cc: NPWC00197 Report Date: June 09, 1997 Page 1 of 1

Sample ID : SPORT0456-2
Lab ID : 9706075-02
Matrix : Soil
Date Collected : 06/03/97
Date Received : 06/04/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		571	1.72	4.72	mg/kg	1.0	JSS	06/05/97	1602	103079	1
The following prep procedures were performed:											
ICP							PGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID : SPORT0456-3
Lab ID : 9706075-03
Matrix : Soil
Date Collected : 06/03/97
Date Received : 06/04/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4340	1.80	4.95	mg/kg	1.0	JSS	06/05/97	1603	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID	: SPORT0456-4
Lab ID	: 9706075-04
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		258	1.70	4.67	mg/kg	1.0	JSS	06/05/97	1608	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID	: SPORT0456-5
Lab ID	: 9706075-05
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		41700	35.3	97.0	mg/kg	20.	ISS	06/05/97	1653	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID	: SPORT0456-6
Lab ID	: 9706075-06
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1030	1.73	4.76	mg/kg	1.0	JSS	06/05/97	1614	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID	: SPORT0456-7
Lab ID	: 9706075-07
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		20900	33.7	92.6	mg/kg	20.	JSS	06/05/97	1655	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID	: SPORT0456-8
Lab ID	: 9706075-08
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		9250	1.80	4.95	mg/kg	1.0	JSS	06/05/97	1624	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: June 09, 1997

Sample ID	: SPORT0456-9
Lab ID	: 9706075-09
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		5630	1.80	4.95	mg/kg	1.0	JSS	06/05/97	1626	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID	: SPORT0456-10
Lab ID	: 9706075-10
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		6130	1.77	4.85	mg/kg	1.0	JSS	06/05/97	1628	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID : SPORT0456-11
Lab ID : 9706075-11
Matrix : Soil
Date Collected : 06/03/97
Date Received : 06/04/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2890	1.78	4.90	mg/kg	1.0	JSS	06/05/97	1526	103079	1
The following prep procedures were performed:											
ICP							PGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Sample ID	: SPORT0456-12
Lab ID	: 9706075-12
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		238	1.75	4.81	mg/kg	1.0	JSS	06/05/97	1645	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 09, 1997 Page 1 of 1

Sample ID	: SPORT0456-13
Lab ID	: 9706075-13
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4330	1.73	4.76	mg/kg	1.0	JSS	06/05/97	1648	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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9706075-13

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 09, 1997

Sample ID	: SPORT0456-14
Lab ID	: 9706075-14
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		3450	1.75	4.81	mg/kg	1.0	JSS	06/05/97	1651	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 09, 1997

Sample ID	: SPORT0456-15
Lab ID	: 9706075-15
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1250	1.72	4.72	mg/kg	1.0	JSS	06/05/97	1651	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 09, 1997

Sample ID	: SPORT0456-16
Lab ID	: 9706075-16
Matrix	: Soil
Date Collected	: 06/03/97
Date Received	: 06/04/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		337	1.78	4.90	mg/kg	1.0	JSS	06/05/97	1529	103079	1
The following prep procedures were performed:											
ICP							PGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 09, 1997 Page 1 of 1

Sample ID : SPORT0456-17
Lab ID : 9706075-17
Matrix : Soil
Date Collected : 06/03/97
Date Received : 06/04/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		6170	1.73	4.76	mg/kg	1.0	JSS	06/05/97	1531	103079	1
The following prep procedures were performed:											
ICP							FGD	06/05/97	1300	103079	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen Blakeney
Reviewed By

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Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1

Client Name/Facility Name: SPORTENVDETCHASN
Collected by/Company: SPORTENVDETCHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD-ICP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORTΦ465-1	6-17-97	1402		X		X	1							X											NBCEΦΦ5$ΦΦ41Φ2
SPORTΦ465-2	6-17-97	1409		X		X	1							X											NBCEΦΦ5$ΦΦ41Φ1
SPORTΦ465-3	6-17-97	1418		X		X	1							X											NBCEΦΦ5$ΦΦ42Φ1
SPORTΦ465-4	6-17-97	1425		X		X	1							X											NBCEΦΦ5$ΦΦ43Φ1

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
J.D. Brown	6-17-97	1525	Fred S McGee Jr.	Fred S McGee Jr.	6/18/97	1445	R.R. Moore
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	

White = sample collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 23, 1997

Sample ID	: SPORT0465-1
Lab ID	: 9706405-01
Matrix	: Soil
Date Collected	: 06/17/97
Date Received	: 06/18/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		195000	134	490	ug/kg	2.0	MBL	06/20/97	1230	103771	1
The following prep procedures were performed:											
TRACE							CRB	06/18/97	2300	103771	2

M = Method	Method-Description
M1	EPA 6010A
M2	EPA 3050

Notes:
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Karen Blakeney
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9706405-01

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 23, 1997

Sample ID	: SPORT0465-2
Lab ID	: 9706405-02
Matrix	: Soil
Date Collected	: 06/17/97
Date Received	: 06/18/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2050000	125	459	ug/kg	2.0	MBL	06/20/97	1215	103771	1
The following prep procedures were performed:											
TRACE							CRB	06/18/97	2300	103771	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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9706405-02

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 23, 1997 Page 1 of 1

Sample ID	: SPORT0465-3
Lab ID	: 9706405-03
Matrix	: Soil
Date Collected	: 06/17/97
Date Received	: 06/18/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		533000	135	495	ug/kg	2.0	MBL	06/20/97	1220	103771	1
The following prep procedures were performed:											
TRACE							CRB	06/18/97	2300	103771	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen Blakeney
Reviewed By

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9706405-03

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: June 23, 1997

Sample ID	: SPORT0465-4
Lab ID	: 9706405-04
Matrix	: Soil
Date Collected	: 06/17/97
Date Received	: 06/18/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		499000	129	472	ug/kg	2.0	MBL	06/20/97	1225	103771	1
The following prep procedures were performed:											
TRACE							CRB	06/18/97	2300	103771	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen D. Blakeney
Reviewed By

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9706405-04

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Page 1 of 1

CHAIN OF CUSTODY RECORD

Client Name/Facility Name: SPORTSMAN DUTCHMAN

Collected by/Company: SPORTSMAN DUTCHMAN

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use I or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	CLP/ICP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORT$555-1	10-23-91	1105		X	X	1								X											NBCE$$5$$44$1
SPORT$555-2	10-23-91	1113		X	X	1								X											NBCE$$5$$45$1
SPORT$555-3	10-23-91	1120		X	X	1								X											NBCE$$5$$46$1
SPORT$555-4	10-23-91	1126		X	X	1								X											NBCE$$5$$47$1 DRM
SPORT$555-5	10-23-91	1134		X	X	1								X											NBCE$$5$$47$2 DRM
SPORT$555-6	10-23-91	1153		X	X	1								X											NBCE$$5$$48$1
SPORT$555-7	10-23-91	1200		X	X	1								X											NBCE$$5$$48$2
SPORT$555-8	10-23-91	1208		X	X	1								X											NBCE$$5$$49$1 DRM
SPORT$555-9	10-23-91	1218		X	X	1								X											NBCE$$5$$50$1 DRM
SPORT$555-10	10-23-91	1227		X	X	1								X											NBCE$$5$$51$1 DRM
SPORT$555-11	10-23-91	1237		X	X	1								X											NBCE$$5$$52$1 DRM
SPORT$555-12	10-23-91	1246		X	X	1								X											NBCE$$5$$53$1 DRM
SPORT$ DRM				X	X	1								X											

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Remarks:	Received by:
Dan L. Morse	10/23/91	1445	W.R. Hines, Jr.	W.R. Hines, Jr.	10/23/91	1530		Catharine [illegible]
Relinquished by:	Date:	Time:	Received by lab by:					

White = sample collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87.56/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997 Page 1 of 1

Sample ID	: SPORT0555-1
Lab ID	: 9710621-01
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		210000	66.4	490	ug/kg	2.0	MBL	10/29/97	0222	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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Karen Blakeney
Reviewed By

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997 Page 1 of 1

Sample ID	: SPORT0555-2
Lab ID	: 9710621-02
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1930000	66.4	490	ug/kg	2.0	MBL	10/29/97	0227	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes.
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997

Sample ID	: SPORT0555-3
Lab ID	: 9710621-03
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		337000	65.8	485	ug/kg	2.0	MBL	10/29/97	0232	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analytic recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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9710621-03

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Projec: Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997 Page 1 of 1

Sample ID	: SPORT0555-4
Lab ID	: 9710621-04
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		898000	64.5	476	ug/kg	2.0	MBL	10/29/97	0237	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997 Page 1 of 1

Sample ID	: SPORT0555-5
Lab ID	: 9710621-05
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		7980	62.2	459	ug/kg	2.0	MBL	10/29/97	0242	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997 Page 1 of 1

Sample ID	: SPORT0555-6
Lab ID	: 9710621-06
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		120000	65.8	485	ug/kg	2.0	MBL	10/29/97	0247	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997

Sample ID : SPORT0555-7
Lab ID : 9710621-07
Matrix : Soil
Date Collected : 10/23/97
Date Received : 10/23/97
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1300000	62.2	459	ug/kg	2.0	MBL	10/29/97	0252	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997 Page 1 of 1

Sample ID	: SPORT0555-8
Lab ID	: 9710621-08
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1840000	166	1230	ug/kg	5.0	MBL	10/29/97	0322	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997

Sample ID : SPORT0555-9
Lab ID : 9710621-09
Matrix : Soil
Date Collected : 10/23/97
Date Received : 10/23/97
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		365000	65.8	485	ug/kg	2.0	MBL	10/29/97	0302	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997

Sample ID	: SPORT0555-10
Lab ID	: 9710621-10
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		306000	67.1	495	ug/kg	2.0	MBL	10/29/97	0307	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997 Page 1 of 1

Sample ID	: SPORT0555-11
Lab ID	: 9710621-11
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4840000	160	1180	ug/kg	5.0	MBL	10/29/97	0345	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: October 30, 1997

Sample ID	: SPORT0555-12
Lab ID	: 9710621-12
Matrix	: Soil
Date Collected	: 10/23/97
Date Received	: 10/23/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2320000	67.8	500	ug/kg	2.0	MBL	10/29/97	0335	110077	1
The following prep procedures were performed:											
TRACE							CRB	10/27/97	2000	110077	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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9710621-12

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CHAIN OF CUSTODY RECORD

9711235

General Engineering Laboratories, Inc
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD ICP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
01	SPORTO565-1	11-10-97	1040		X		X	1							X											NBCE005S005401 .1
02	SPORTO565-2	11-10-97	1049		X		X	1							X											NBCE005S005501 .1
03	SPORTO565-3	11-10-97	1100		X		X	1							X											NBCE005S005601 .1
04	SPORTO565-4	11-10-97	1105		X		X	1							X											NBCE005S005702 .1
05	SPORTO565-5	11-10-97	1110		X		X	1							X											NBCE005S005801 .1

CCL 29937

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Daniel Hlouse	11/10/97	1400	Vivian Washington	Vivian Washington	11/10/97	1500	Catharine Hall
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
Catharine Hall	11/10/97	1540	Karen Blakeney	11/10/97	1540		

White - sample collector Yellow - file Pink - with report

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STATE	GEL	EPI
FL	E87156/87294	E87472/87488
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: November 13, 1997 Page 1 of 1

Sample ID : SPORTO565-1
Lab ID : 9711235-01
Matrix : Soil
Date Collected : 11/10/97
Date Received : 11/10/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2150000	65.2	1440	ug/kg	2.0	MBL	11/12/97	1123	111094	1
The following prep procedures were performed:											
TRACE							FGD	11/11/97	1700	111094	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
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1899 North Hobson Ave.
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: November 13, 1997

Sample ID	: SPORT0565-2
Lab ID	: 9711235-02
Matrix	: Soil
Date Collected	: 11/10/97
Date Received	: 11/10/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1630000	62.8	1390	ug/kg	2.0	MBL	11/12/97	1127	111094	1
The following prep procedures were performed:											
TRACE							FGD	11/11/97	1700	111094	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hicrs
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: November 13, 1997 Page 1 of 1

Sample ID	: SPORT0565-3
Lab ID	: 9711235-03
Matrix	: Soil
Date Collected	: 11/10/97
Date Received	: 11/10/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1140000	64.0	1420	ug/kg	2.0	MBL	11/12/97	1132	111094	1
The following prep procedures were performed:											
TRACE							FGD	11/11/97	1700	111094	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: November 13, 1997

Sample ID : SPORT0565-4
Lab ID : 9711235-04
Matrix : Soil
Date Collected : 11/10/97
Date Received : 11/10/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1380000	64.0	1420	ug/kg	2.0	MBL	11/12/97	1137	111094	1
The following prep procedures were performed:											
TRACE							FGD	11/11/97	1700	111094	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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9711235-04

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: November 13, 1997

Sample ID	: SPORT0565-5
Lab ID	: 9711235-05
Matrix	: Soil
Date Collected	: 11/10/97
Date Received	: 11/10/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4620000	66.4	1470	ug/kg	2.0	MBL	11/12/97	1142	111094	1
The following prep procedures were performed:											
TRACE							FGD	11/11/97	1700	111094	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
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Karen Blakeney
Reviewed By

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9711235-05

NPDES 00197 — 5 day turn — 9711758

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2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

SPORT 0569

Page 1 of 1

Client Name/Facility Name: SUPSHIP - Env. Detach.

Collected by/Company:

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

CCL 3007Z

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify, Method required	METALS - specify,	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify, type			Remarks
SPORT 0569-1 R 9711235-01	11/10/97	1040																							TCLP Pb .1
SPORT 0569-2 R 9711235-05	11/10/97	1110																							TCLP Pb .1

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by lab by: Dionne Francis	Date: 11/17/97	Time:	Remarks:	

White = sample collector Yell w = file Pink = with report

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

Same soil tested under ID SPRT0505-1 had 2150 PPM total lead.

cc: NPWC00197

Report Date: November 20, 1997

Sample ID	: SPORT0569-01
Lab ID	: 9711438-01
Matrix	: TCLP
Date Collected	: 11/10/97
Date Received	: 11/17/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		26600	1.36	10.0	ug/l	2.0	MBL	11/19/97	0950	111471	1
The following prep procedures were performed:											
TCLP Prep for Metals							JL	11/17/97	1435	111368	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

Notes:
The qualifiers in this report are defined as follows:
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U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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9711438-01

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

Same soil tested under ID SPORT 0565-S ref 4620. PPM total lead

cc: NPWC00197 Report Date: November 20, 1997

Sample ID	: SPORT0569-02
Lab ID	: 9711438-02
Matrix	: ~~TCLP~~
Date Collected	: 11/10/97
Date Received	: 11/17/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		81100	1.36	10.0	ug/l	2.0	MBL	11/19/97	0944	111471	1
The following prep procedures were performed:											
TCLP Prep for Metals							JL	11/17/97	1435	111368	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

Notes:
The qualifiers in this report are defined as follows:
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Karen Blakeney
Reviewed By

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9711438-02

3 - DAY TURNAROUND

CHAIN OF CUSTODY RECORD

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Page 1 of 1

Client Name/Facility Name: SPORTENVDETCHASN
Collected by/Company: SPORTENVDETCHASN

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD ICP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORTO576-1	11-25-97	1000		X		X	1							X											NBCE-005500 5901
SPORTO576-2	11-25-97	1010		X		X	1							X											NBCE005500 6001
SPORTO576-3	11-25-97	1021		X		X	1							X											NBCE005500 6101
SPORTO576-4	11-25-97	1033		X		X	1							X											NBCE005500 6202
																									TARGET LEVEL: 1300 PPM

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Daniel Mosse	11/25/97	1133	W. R. Hein, Jr.	William R. Hein	11/25/97	1425	Stephanie Bookhart
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	

White = sample collector Yell w = file Plnk = with report

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: December 02, 1997

Sample ID : SPORT0576-1
Lab ID : 9711726-01
Matrix : Soil
Date Collected : 11/25/97
Date Received : 11/25/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		1270000	66.4	490	ug/kg	2.0	MBL	11/30/97	1507	112020	1
The following prep procedures were performed:											
TRACE							RMJ	11/26/97	1600	112020	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen Blakeney
Reviewed By

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9711726-01

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Laboratory Certifications

STATE	GEL	LPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: December 02, 1997

Sample ID : SPORTU576-2
Lab ID : 9711726-02
Matrix : Soil
Date Collected : 11/25/97
Date Received : 11/25/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		698000	65.8	485	ug/kg	2.0	MBL	11/30/97	1512	112020	1
The following prep procedures were performed:											
TRACE							RMJ	11/26/97	1600	112020	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Karen Blakeney
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9711726-02

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Laboratory Certifications

STATE	GEL	SPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: December 02, 1997 Page 1 of 1

Sample ID : SPORT0576-3
Lab ID : 9711726-03
Matrix : Soil
Date Collected : 11/25/97
Date Received : 11/25/97
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		657000	67.8	500	ug/kg	2.0	MBL	11/30/97	1518	112020	1
The following prep procedures were performed:											
TRACE							RMJ	11/26/97	1600	112020	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen Blakeney
Reviewed By

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9711726-03

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: December 02, 1997 Page 1 of 1

Sample ID	: SPORT0576-4
Lab ID	: 9711726-04
Matrix	: Soil
Date Collected	: 11/25/97
Date Received	: 11/25/97
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		258000	66.4	490	ug/kg	2.0	MBL	11/30/97	1524	112020	1
The following prep procedures were performed:											
TRACE							RMJ	11/26/97	1600	112020	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:
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Karen Blakeney
Reviewed By

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9711726-04

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Page 1 of 1

CHAIN OF CUSTODY RECORD

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: D.R. MORSE / SPORTENVDETCHASN

SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify, Method required	METALS - specify (SEE REMARKS)	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
SPORT0074-1	6/12/96	1330				X	2							X											SWMU 5. NBCE005Z000100
SPORT0074-2	6/12/96	1400				X	2							X											SWMU 5 NBCE005Z000200
SPORT0074-3	6/12/96	1500			X		2							X											SWMU 5 NBCE005V000100
																									METALS: 1) RCRA METALS 2) ANTIMONY - ICP 3) BERYLLIUM - ICP 4) NICKEL - ICP

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Dan R. Morse	6/13/96	1000	[illegible]	W.R. Theus, Jr.	6/14/96	1025	Michael [illegible]
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	

White = sample collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID	: SPORT 0074-1
Lab ID	: 9606278-01
Matrix	: GroundH2O
Date Collected	: 06/12/96
Date Received	: 06/14/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury	J	0.0520	0.0148	0.500	ug/l	1.0	RMJ	06/17/96	1646	86049	N
Silver	U	1.04	2.49	10.0	ug/l	1.0	NRM	06/19/96	0112	86099	1
Arsenic		80.9	1.86	10.0	ug/l	1.0					
Barium		20.1	0.0663	10.0	ug/l	1.0					
Beryllium	U	-0.129	0.0114	5.00	ug/l	1.0					
Cadmium	J	2.90	0.0970	5.00	ug/l	1.0					
Chromium		163	0.596	10.0	ug/l	1.0					
Nickel		24.2	0.807	10.0	ug/l	1.0					
Lead		1240	1.13	5.00	ug/l	1.0					
Antimony	J	2.46	0.958	10.0	ug/l	1.0					
Selenium	U	-0.818	1.43	5.00	ug/l	1.0					

The following prep procedures were performed:

Mercury	RMJ	06/17/96	1200	86049 2
TRACE	FGD	06/18/96	1530	86099 3

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7470
M 3	EPA 3005

GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0074-1

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
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* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

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CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0074-1

GEL Laboratory Certifications **EPI Laboratory Certifications**

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID	: SPORT 0074-2
Lab ID	: 9606278-02
Matrix	: GroundH2O
Date Collected	: 06/12/96
Date Received	: 06/14/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury	J	0.0190	0.0148	0.500	ug/l	1.0	RMJ	06/17/96	1653	86049	N
Silver	U	0.436	2.49	10.0	ug/l	1.0	NRM	06/19/96	0116	86099	1
Arsenic		94.9	1.86	10.0	ug/l	1.0					
Barium		31.9	0.0663	10.0	ug/l	1.0					
Beryllium	U	-0.0890	0.0114	5.00	ug/l	1.0					
Cadmium		5.64	0.0970	5.00	ug/l	1.0					
Chromium		92.2	0.596	10.0	ug/l	1.0					
Nickel		36.8	0.807	10.0	ug/l	1.0					
Lead		543	1.13	5.00	ug/l	1.0					
Antimony	J	3.35	0.958	10.0	ug/l	1.0					
Selenium	U	-0.266	1.43	5.00	ug/l	1.0					

The following prep procedures were performed:

Mercury	RMJ	06/17/96	1200	86049 2
TRACE	FGD	06/18/96	1530	86099 3

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7470
M 3	EPA 3005

GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0074-2

M = Method	Method-Description

Notes:
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* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

P O Box 30712 • Charleston, SC 29417 • (803) 556-8171 • Fax (803) 766-1178

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0074-2

GEL Laboratory Certifications **EPI Laboratory Certifications**

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

P O Box 30712 • Charleston, SC 29417 • (803) 556-8171 • Fax (803) 766-1178

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID : SPORT 0074-3
Lab ID : 9606278-03
Matrix : Misc.
Date Collected : 06/12/96
Date Received : 06/14/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury	J	23.7	2.31	33.2	ug/kg	1.0	RMJ	06/18/96	1757	86114	N
Silver	U	81.2	125	500	ug/kg	1.0	WCC	06/19/96	1523	86101	1
Arsenic		1320	93.0	500	ug/kg	1.0					
Barium		26000	3.32	500	ug/kg	1.0					
Beryllium	J	179	0.570	250	ug/kg	1.0					
Cadmium	J	187	4.85	250	ug/kg	1.0					
Chromium		11800	29.8	500	ug/kg	1.0					
Nickel		4980	40.4	500	ug/kg	1.0					
Lead		118000	56.5	250	ug/kg	1.0					
Antimony	J	411	47.9	500	ug/kg	1.0					
Selenium		280	71.5	250	ug/kg	1.0					

The following prep procedures were performed:

Mercury	RMJ	06/18/96	1230	86114 2
TRACE	DVW	06/18/96	1555	86101 3

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3050

GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

Sample ID : SPORT 0074-3

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID : SPORT 0074-3

GEL Laboratory Certifications **EPI Laboratory Certifications**

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

P O Box 30712 • Charleston, SC 29417 • (803) 556-8171 • Fax (803) 766-1178

APPENDIX D

WASTE DOCUMENTATION

South Carolina Department of Health and Environmental Control

DET SEL # 7087HH01 2D

Bureau of Solid & Hazardous Waste Mgt
2600 Bull Street, Columbia, SC 29201
Phone (803) 734-5200
Emergency & Holidays (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's U.S. EPA ID No. SC0170022560 | Manifest Document No. 13164 | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is by State law

GENERATOR

3 Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4 Generator's Phone (803) 743-9985

A. State Manifest Document Number

B. State Generator's ID

5 Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.

6. U.S. EPA ID Number: SCD987574647

C. State Transporter's ID

D. Transporter's Phone 803-452-6060

7 Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125

10 U.S. EPA ID Number: SCD070375985

G. State Facility's ID

H. Facility's Phone (803) 452-5003

11 U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14 Unit Wt/Vol	I. Waste Number
a RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	20	Y	D008
b					
c					
d					

J. Additional Descriptions for Materials Listed Above

a PW-01343-4112

b

c

d

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
S.C. DEPT OF HEALTH & ENVIRONMENTAL CONTROL

15 Special Handling Instructions and Additional Information

WO# 216575

24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16 **GENERATOR'S CERTIFICATION**: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Charles E. STUTTS | Signature: Charles E. Stutts | Month 03 Day 31 Year 97

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Marion Clark | Signature: Marion Clark | Month 03 Day 31 Year 97

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19 Discrepancy Indication Space

a. 32730 lbs c. ____ lbs

b. ____ lbs d. ____ lbs

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: Moss | Signature | Month 03 Day 31 Year 97

EPA Form 8700 (Rev. 9/88) Previous [illegible]

South Carolina Department of Health and Environmental Control

1144 DET SER# 7092HHO (15)

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0170022560 | Manifest Document No 3168 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647
C. State Transporter's ID
D. Transporter's Phone 803-452-6060

7. Transporter 2 Company Name
8. U.S. EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985
G. State Facility's ID
H. Facility's Phone (803) 452-5003

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	20	Y	D008
b.					
c.					

GENERATOR

J. Additional Descriptions for Materials Listed Above
a. PW-013483-4112
b.
c.
d.

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
S.C DEPT OF HEALTH
& ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information

WO# _____
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities This includes time for reviewing instructions, gathering data and completing and reviewing the form Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U S Environmental Protection Agency, 401 M St S W, Washington, D C 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D C 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
CHARLES E. STUTTS	Charles E. Stutts	10	4	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Raymond Smith	Raymond Smith	10	4	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space
216576

a. 27680 lbs. c. _____ lbs.
b. _____ lbs. d. _____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
HARRIS				

South Carolina Department of Health and Environmental Control

9:58 DET SER # 7092HH02 (11)

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays. (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 13777

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number [redacted]

B. Generator's ID [redacted]

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.

6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

C. State Transporter's ID 581-1999

D. Transporter's Phone 803-[illegible]

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pin wood, South Carolina 29125

10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

G. State Facility's ID

H. Facility's Phone (803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 01	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. P W - 0 1 3 4 3 - 4 1 1 2 c.

b. d.

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
S.C DEPT OF HEALTH
& ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information

WO# 216577
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters and 1 0 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions gathering data and completing and reviewing the form. Send comments regarding the burden estimate including suggestions for reducing this burden to Chief Information Policy Branch PM-223 U.S. Environmental Protection Agency 401 M St. S.W. Washington D.C. 20460 and to the Office of Information and Regulatory Affairs Office of Management and Budget Washington D.C. 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	04	07	97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Charles Faverell	Charles Faverell	04	07	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

a. 27680 lbs. c. lbs.

b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
CHARLES	[illegible]	04	07	97

DESIGNATED FACILITY: DETACH & RE[illegible] THIS COPY FOR YOUR RECORDS

SCDHEC 8700 Rev. 9 88) Previous Editions are Obsolete (DHEC 1988 (Rev. 5 89)

South Carolina Department of Health and Environmental Control

DET SER # 7092HH03

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No 1 3 1 7 8 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7
C. State Transporter's ID
D. Transporter's Phone 803-452-6060

7. Transporter 2 Company Name
8. U.S EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5
G. State Facility's ID
H. Facility's Phone (803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12 Containers No.	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. P W 0 1 3 4 3 4 1 1 2
b.
c.
d.

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
SC DEPT OF HEALTH
& ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information
WO# 216578
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate including suggestions for reducing this burden to Chief, Information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
GARY L CRAWFORD	Gary L Crawford	04	07	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
RAY WINCHESTER	Ray Winchester	04	07	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space
216578
a. 27040 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month	Day	Year
JAY JUSTICE	Jay Justice	04	07	97

EPA Form 8700-22 Rev. 3-89 Previous Editions are Obsolete. DHEC 1989 Rev. 3-91

South Carolina Department of Health and Environmental Control

DET SER # 7093HH03

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC 0 1 7 0 0 2 2 5 6 | Manifest Document No. 0 1 3 1 8 5 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4 Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14 Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a PW-01343-4112 c
b d

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
S C DEPT OF HEALTH
& ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information

WO# 216579
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities This includes time for reviewing instructions, gathering data, and completing and reviewing the form Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223 U S Environmental Protection Agency 401 M St S W Washington D C 20460, and to the Office of Information and Regulatory Affairs Office of Management and Budget, Washington, D C 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	04	10	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
William C Summers	William C Summers	04	10	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space
a. 26880 lbs. c. lbs
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
C. Moses		04	10	97

EPA Form 8700 (Rev 9/88) Previous Editions are Obsolete (DHEC 1988 (Rev. 5/89))

FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS

South Carolina Department of Health and Environmental Control

DET SER # 7099HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0170022560 Manifest Document No. 13186
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647
A. State Transporter's ID
B. Transporter's Phone: 803-452-5060

7. Transporter 2 Company Name
8. U.S. EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985
E. State Facility's ID
F. Facility's Phone: (803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	20	Y	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-013433-4112
b.
c.
d.

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
S.C DEPT OF HEALTH
& ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information

WO# _____
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief Information Policy Branch PM-223 U.S. Environmental Protection Agency, 401 M St. S.W. Washington D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: RICHARD G. NIELSON | Signature | Month 04 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Raymond Smith | Signature | Month 04 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
21650
a. 2800 lbs. c. _____ lbs.
b. _____ lbs. d. _____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: C. Moss | Signature | Month 04 Day 10 Year 97

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS

South Carolina Department of Health and Environmental Control

12-56 726A DET SER # 7099 HH02 20

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 1 3 1 8 7 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is by State law.

Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc. — 6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address: Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125 — 10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

(803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a PW-01343-4112 c.
b. d.

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
SC DEPT OF HEALTH
ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information 08-89443

WO# 216581
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate including suggestions for reducing this burden to Chief, Information Policy Branch PM-223 U.S. Environmental Protection Agency 401 M St. S.W. Washington D.C. 20460 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: RICHARD G. NIELSON — Signature: Richard G. Nielson — Month Day Year: 04 10 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Willard Horsley — Signature: Willard Horsley — Month Day Year: 04 10 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
a. 29680 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: JAN JUSTICE — Signature: Jan Justice — Month Day Year: 04 10 97

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS

South Carolina Department of Health and Environmental Control

DET SER No. 7100HH01 / 13

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 13188 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM; Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW-01343-4112
b.
c.
d.

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR
S.C DEPT OF HEALTH
& ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information

WO# 216582
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data and completing and reviewing the form. Send comments regarding the burden estimate including suggestions for reducing this burden to Chief Information Policy Branch PM-223 U.S. Environmental Protection Agency 401 M St S.W. Washington, D.C. 20460 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Gary L Crawford	Gary L Crawford	04	11	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tommy W Livingston	Tommy W Livingston	04	11	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space
a. 24540 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
C Moses	C Moses	04	11	97

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS

South Carolina Department of Health and Environmental Control

DET SER #: 7141HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No.: S C 0 1 7 0 0 2 2 5 6 0
Manifest Document No.: 1 3 Z 0 0
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010
4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

a. PW-0134841112
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO# 217277
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average .37 minutes for generators .15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	05	27	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
TOMMY W LIVINGSTON	Tommy W Livingston	05	27	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete (DHEC 1986 (Rev. 5/89))

GENERATOR: DETACH & RETAIN THIS COPY

South Carolina Department of Health and Environmental Control

DET SER # 7141HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No 1 3 2 0 1
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

	11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a.	RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	0 0 0 8
b.						
c.						
d.						

a. PW - 0 1 3 4 8 - 4 1 1 2
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO# 217278
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average .37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223 U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	05	27	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Charles Fajen II	Charles Fajen	05	27	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete (DHEC 1988 (Rev. 5/89)

GENERATOR - RETAIN A COPY FOR YOUR RECORDS

South Carolina Department of Health and Environmental Control

DET SER # 7141HH03

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No.: S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No.: 1 3 2 8 2
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C 0 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	0 0 0 8
b.					
c.					
d.					

a. P W - 0 1 B 4 8 - 4 1 1 1 2
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO# 217279
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: GARY CRAWFORD — Signature: [signature] — Month 05 Day 28 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TOMMY WLIVINGSTON — Signature: [signature] — Month 05 Day 28 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7141HH04

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 13233

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TB), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

a. PW-01B4-8-41112
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO# 217280
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average .37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: (GARY CRAWFORD) — Signature — Month 05 Day 28 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles Caudill — Signature — Month 05 Day 28 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete (DHEC 1999 (Rev. 6/91))

South Carolina Department of Health and Environmental Control

DET SER.# 7148HHD1

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC D 1 7 0 0 2 2 5 6 0 — Manifest Document No. 13204
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name — 6. U.S. EPA ID Number
Laidlaw Environmental Services(TB), Inc. — SC D 0 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address — 10. U.S. EPA ID Number
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125 — SC D 0 1 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	210	Y	0006
b.					
c.					

a. PW-015435-4112 c.
b. d.

15. Special Handling Instructions and Additional Information

WO# 217286
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	05	29	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
CHARLES RAVELLI	Charles Ravelli	05	29	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Departm nt of Health and Environmental Control

DET. SER # 7148HH03

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 13205 — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SQUIHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name — 6. U.S. EPA ID Number
Laidlaw Environmental Services(TG), Inc. — S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address — 10. U.S. EPA ID Number
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125 — S C D 0 7 0 1 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	210	Y	0008
b.					
c.					

a. PW-01343-4112 c.
b. d.

15. Special Handling Instructions and Additional Information

WO# 217285
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: RICHARD G. NIELSON — Signature — Month 05 Day 29 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tammy W Livingston — Signature — Month 05 Day 29 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1968 (Rev. 5/89)]

DISTRIBUTION: GENERATOR, ATTACH 3 COPIES TO BILL OF LADING

South Carolina Department of Health and Environmental Control

DET SER # 7149HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0170027560 — Manifest Document No. 13206 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc. — 6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 256
Pinewood, South Carolina 29125 — 10. U.S. EPA ID Number: SC0070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	210	Y	D008
b.					
c.					
d.					

a. PW-01B43-4112 c. —
b. — d. —

15. Special Handling Instructions and Additional Information

WO# 217287
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing the burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	05	30	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tommy W Livingston	Tommy W Livingston	05	30	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DET SER # 7149HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C D 1 7 0 0 2 5 6 0 | Manifest Document No. 32097 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 6 9 8 5

GENERATOR

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

a. PW-0123-41112
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO# 217288
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	05	30	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Karla Kaney	Karla Kaney	05	30	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

GENERATOR: DETACH & RETAIN THIS COPY

South Carolina Department of Health and Environmental Control

DET SER #7148 HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C D 1 1 7 1 0 0 2 2 5 6 0 — Manifest Document No. 1 3 2 1 6

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address 1 3 2 1 6

SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(IG), Inc

6. U.S. EPA ID Number: S C D 9 8 7 5 7 0 6 4 7

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address: Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125

10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	0 0 0 8
b.					
c.					
d.					

a. P W - 0 1 5 4 3 - 4 1 1 2

b.

c.

d.

15. Special Handling Instructions and Additional Information

WO# 217698

24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name	Signature	Month	Day	Year
GARY L CRAWFORD	Gary L Crawford	0 6	0 6	9 7

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Willie Fuller	Willie Fuller	0 6	0 6	9 7

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

a. lbs. c. lbs.

b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Departm nt of H alth and Environm ntal Control

JERRY I. BROWNLEE
Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

DET SER # 7150HH02, 7149HH03 JERRY. BROWNLEE 5-30-97

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 1 Manifest Document No. 3209
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010
4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	020	Y	0008
b.					
c.					

a. PW-0153A3-4112
b.
c.
d.

15. Special Handling Instructions and Additional Information
WO# 217290
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	05	30	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Charles Rainwell	Charles Rainwell	05	30	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DET SER # 7150HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SCD112705212 — Manifest Document No. 13217
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010
4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name — 6. U.S. EPA ID Number
Laidlaw Environmental Services(IG), Inc. — SCD987516417

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address — 10. U.S. EPA ID Number
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125 — SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	20	Y	0008
b.					
c.					
d.					

a. PW-013431-4112
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO# 217920
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

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Printed/Typed Name	Signature	Month	Day	Year
Richard G. Nielson	Richard G. Nielson	06	20	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
William C. Summers	William C. Summers	06	20	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DET SER# 7149HH03 7150HH02 JERRY J. BROWNLEE 5-30-97

JERRY I. BROWNLEE
Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 | Manifest Document No. 13208 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	0 0 0 8
b.					
c.					

a. PWI-011B-A3-A1112
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO# 217289
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

Public reporting burden for this collection of information is estimated to average .37 minutes for generators; 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	05	30	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
TOMMY W LIVINGSTON	Tommy W Livingston	05	30	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete (DHEC 1903 (Rev. 9/88))

South Carolina Departm nt of Health and Environmental Control

DET SER # 7153HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 1 3 2 1 8 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc. — 6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address — 10. U.S. EPA ID Number
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125 — S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	0 0 1	C M	2 0	Y	D 0 0 8
b.					
c.					
d.					

a. P W - 0 1 B A 3 - A 1 1 1 2 — c.
b. — d.

15. Special Handling Instructions and Additional Information

WO# 21792

24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 16 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: RICHARD G. NIELSON — Signature: Richard G. Nielson — Month Day Year: 0 6 2 0 9 7

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Eddie Johnson — Signature: Eddie Johnson — Month Day Year: 0 6 2 0 9 7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

South Carolina Department of Health and Environmental Control

DET SEC # 7167 HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0170022660 Manifest Document No. 13229
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985 RICK NIELSON

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	20	Y	D008
b.					
c.					
d.					

a. PW-01843-4112
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO#
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	08	12	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
William Jackson	William Jackson	08	12	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DET SEP# 7279HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. [illegible] Manifest Document No. 13236
2. Page 1 of

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419 9010

4. Generator's Phone (803) 743-9096 [illegible]

5. Transporter 1 Company Name: [illegible] Environmental Services [illegible], Inc
6. U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
[illegible] Environmental Services of South Carolina, Inc.
P.O. Box [illegible]
[illegible], South Carolina [illegible]
10. U.S. EPA ID Number: [illegible]

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. [illegible] Hazardous Waste Solid, N.O.S., 9, NA3077, [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	D008
b.					
c.					
d.					

Additional Descriptions for Materials Listed Above
a. [illegible]
b.
c.
d.

Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
WO# 221279
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9096

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: RICHARD G. NIELSON — Signature: [signature] — Month Day Year: 10 07 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: St. Clair JACKSON — Signature: [signature] — Month Day Year: 10 07 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700 [illegible]

South Carolina Department of Health and Environmental Control

DET SER# 7281 HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

FORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0 1 7 0 0 2 5 6 0 1 — Manifest Document No. 3237
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (8) 743-9985

5. Transporter 1 Company Name — 6. U.S. EPA ID Number
[illegible] Environmental Services(TS), Inc. — S C D 0 8 7 5 7 4 0 4 7

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address — 10. U.S. EPA ID Number
[illegible] Environmental Services of South Carolina, Inc.
[illegible], South Carolina 29125 — S C D 0 1 7 0 3 7 8 8 5

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. [illegible] Hazardous Waste Solid, N.O.S., 9, NA3077, [illegible]		M	020	Y	D 0 0 8
b.					
c.					

J. Additional Descriptions for Materials Listed Above — K. Handling Codes for [illegible]

a. [illegible] — c. [illegible]
b. [illegible] — d. [illegible]

15. Special Handling Instructions and Additional Information

22188
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD S. NIELSON	[signature]	10	09	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
JOE RAVENELL	[signature]	10	09	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. [ ] lbs. c. [ ] lbs.
b. [ ] lbs. d. [ ] lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

FACILITY RETAINS PINK COPY FOR RECORDS

South Carolina Department of Health and Environmental Control

DET SER# 7283HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0 1 1 7 0 0 2 5 6 0 — Manifest Document No. 13239 — 2. Page 1 of — Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name — 6. U.S. EPA ID Number
Laidlaw Environmental Services(IG), Inc. — SCD 981 751 414 7

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address — 10. U.S. EPA ID Number
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Ridgewood, South Carolina 29125 — SCD 017 037 589 5

GENERATOR

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	210	Y — lb 0 0 8
b.				
c.				

J. Additional Descriptions for Materials Listed Above — K. Handling Codes for Wastes Listed Above

a. W-01543-4111 — c. — b. — d.

15. Special Handling Instructions and Additional Information

WO# 221281
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 18 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: RICHARD G. NIELSON — Signature: Richard G. Nielson — Month Day Year: 10 10 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jay F. Schanfenberg — Signature: Jay F. Schanfenberg — Month Day Year: 10 10 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

Discrepancy Indication Space

a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

South Carolina Departm nt of Health and Environmental Control

DET SER# 7279 HHOZ

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is by State law.

S C D 1 7 0 1 2 3 6 6 0 | 13238

3. Generator's Name and Mailing Address

SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010.

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name | 6. U.S. EPA ID Number

Laidlaw Environmental Services(TG), Inc. | S C D 0 9 9 7 5 7 4 5 4 7

7. Transporter 2 Company Name | 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address | 10. U.S. EPA ID Number

Laidlaw Environmental Services of South Carolina, Inc.
Rt. 1 Box 255
Dillon, South Carolina 29125 | S C D 0 7 0 3 7 5 8 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. U, Hazardous Waste Solid, N.O.S., 9, NA3077, (Lead)	001	DM		P 0018
b.				
c.				

J. Additional Descriptions for Materials Listed Above | K. Handling Codes for Wastes Listed Above

a. [illegible] | c.
b. | d.

15. Special Handling Instructions and Additional Information

PO# 221287
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G NIELSON	[signature]	10	10	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tommy Livingston	[signature]	10	10	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DET SER # 7283HHDZ

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0170022560 — Manifest Document No. 13268
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	010	Y	0008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. DW-018483-41112
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

WO# 222330
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name	Signature	Month	Day	Year
William A. Drindy	[signature]	1	10	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Raymond Smith	Raymond Smith	1	10	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. _____ lbs. c. _____ lbs.
b. _____ lbs. d. _____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DET SER 7311HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0170022560 — Manifest Document No. 13276 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010 — 13276

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc. — 6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name — 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Ridgewood, South Carolina 29125 — 10. U.S. EPA ID Number: SCD007037585

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	
a. UN, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)	001	CM	20	Y	D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above — K. Handling Codes for Wastes Listed Above

a. PW-01543-41112
b.
c.
d.

15. Special Handling Instructions and Additional Information

WO#

24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	11	18	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
St. Clair Jackson	St. Clair Jackson	11	18	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

DET SER 7309 HH08

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. Manifest Document No 1 3 2 7 8
2. Page 1 of
Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
Laidlaw Environmental Services(TS), Inc.

6. U.S. EPA ID Number
S 0 9 8 7 5 7 4 0 4 7

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Box 255
Pinewood, South Carolina 29125

10. U.S. EPA ID Number
S C D 0 7 0 3 7 5 9 8 5

G. State Facility's ID

H. Facility's Phone
(803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid, N.O.S., 9, NA3077, (Lead)			10		D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. 4

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Job # 222780

24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

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Printed/Typed Name	Signature	Month	Day	Year
Richard G. Nielson	Richard G. Nielson	1	20	97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Allen Wamor	Allen Wamor	1	20	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Departm nt of Health and Environmental Control

DET CER 7324HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

FORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. | Manifest Document No. 13289 | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name | 6. U.S. EPA ID Number
Laidlaw Environmental Services(TA), Inc.

7. Transporter 2 Company Name | 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address | 10. U.S. EPA ID Number
Laidlaw Environmental Services of South Carolina, Inc.
P O Box 255
Ridgewood, South Carolina 29125

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 432-5801

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Hazardous Waste Solid, N.O.S., 9, NA3077, (RQ, D001)		DM	55	P	D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. [illegible]
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO #
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

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GENERATOR

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Printed/Typed Name	Signature	Month	Day	Year
RICHARD G. NIELSON	Richard G. Nielson	12	15	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
J. JOE RANZELL	[signature]	12	15	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DET SER 7325HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. | Manifest Document No. 3299 | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIV/NAVFACENGCOM, Caretaker Site : ATTN: PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9885

5. Transporter 1 Company Name | 6. U.S. EPA ID Number
Laidlaw Environmental Services(TG), Inc

7. Transporter 2 Company Name | 8. U.S. EPA ID Number

9. Designated Facility Name and Site Address | 10. U.S. EPA ID Number
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Ridgewood, South Carolina 29936

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 462-5000

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous waste Solid, N.O.S., 9, NA3077, PG III (lead)					D 0 0 8
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. EW-0153-4112 c.
b. d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

WO# 223149
24 hour emergency contact: Rick Nielson or Gary Crawford

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Printed/Typed Name	Signature	Month	Day	Year
Richard E. Nielson		12	15	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Joe Rahnke		12	15	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

APPENDIX E

MISCELLANEOUS DOCUMENTATION

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN
PORTSMOUTH, VIRGINIA, DETACHMENT ENVIRONMENTAL CHARLESTON
1899 NORTH HOBSON AVENUE, BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:

Ser 488
APR 1 1 1997

Mr. Paul Bergstrand
South Carolina Department of Health & Environmental Control
Bureau of Solid and Hazardous Waste Management
2600 Bull Street
Columbia, SC 29201

Subj: ABANDONMENT OF MONITORING WELL 605GW002

Ref: (a) Approved Interim/Stabilization Measure (IM) Work Plan for Solid Waste Management Unit (SWMU) 5, Area of Concern (AOC) 605 & AOC 621, Naval Base Charleston, Charleston, SC

(b) South Carolina Well Standards and Regulations R. 61-71

Dear Mr. Bergstrand,

Abandonment of monitoring well 605GW002 was identified in paragraph 4.1 of reference (a). Abandonment of this well was determined to be necessary to facilitate excavation of soil at the well location as part of the IM process. This well is located adjacent to concrete pad 1278 (AOC 605) at the Charleston Naval Complex. Fourth quarter sampling of this well is complete.

Please be informed that on March 14, 1997 this well was abandoned in place by Environmental Detachment Charleston (DET) personnel. This was accomplished by filling the 2 inch PVC well casing with cement grout in accordance with the requirements of reference (b) and under the supervision of Mr. Chuck Stutz of Southern Division Naval Facilities Engineering Command, Caretaker Site Office. Mr. Stutz is a well driller licensed by the state of South Carolina.

Questions and/or comments regarding abandonment of this well should be addressed to Dan Morse at (803) 743-6777 extension 218.

E. R. Dearhart

Distribution:
EPA (J. Bassett)
SCDHEC (J. Tapia)
SDIV (Code 1876)

APPENDIX A
PH CALIBRATION & ANALYSIS FORM

OPERATION CHECKLIST

pH meter serial number: S/N 005865

1. No structural damage observed on meter/probe — yes
2. Probe filled with 3N KCL — yes
3. Probe rinsed with reagent grade water — yes
4. Buffer solutions within expiration date — yes
5. Check for LOW BATTERY prompt on meter — yes

CALIBRATION

pH of reagent grade (De-Ionized) water: 6.22
Slope (SLP) reading of pH meter (percent): 99.4 %

	TRUE VALUE AT 25°C	OBSERVED VALUE	TEMP °C
pH 4 BUFFER	NA	NA	NA
pH 7 BUFFER	7.00	6.99	23.1
PH 10 BUFFER	10.00	10.03	23.1

SAMPLE ANALYSIS

LAB NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE LOCATION	pH 1 MEASURE	pH 2 MEASURE	pH AVERAGE
97FL0003-1	3-5-97	1100	SWMU-5 Acid Drain Line	7.87	7.87	7.87

REMARKS: NONE

ANALYST: Fred B. McFearin Jr. DATE: 3-5-97 TIME: 1145

REVIEWED BY: William R Hein Jr. DATE: 3/5/97 TIME: 1146
LAB DIRECTOR/SAMPLE COORDINATOR

APPENDIX F

PHOTOGRAPHS

SUMMARY OF PHOTOGRAPHS

PHOTO F-1: Very early into the excavation and viewed towards the southwest from behind existing monitoring well number 018GW001. Building 1435 is at left and the small excavation behing the well is at soil sample location 018SB004 which was identified during RFI sampling to contain elevated concentrations of lead.

PHOTO F-2: Also very early into the excavation and viewed towards the northwest accross the end of Building 1435. Abandoned monitoring well number 605GW002 is located in approximately the center of the photo with the elevated battery wrecking pad in the background.

PHOTO F-3: Close-up photo of abandoned monitoring well number 605GW002.

PHOTO F-4: Ongoing excavation of soil from underneath the battery wrecking pad and pad 1278. A Bobcat "mini excavator" was used to remove the soil from under the pad and the soil was then transferred to the track-hoe bucket to be placed in the roll-off containers seen in the background.

PHOTO F-5: Near the end of the excavation work and viewed towards the southwest from on top of existing monitoring well number 018GW001. The battery crane, which is missing in the previous photo, can be seen in the right background reinstalled on its foundation.

PHOTO F-6: Viewed towards the southwest and parallel with the pad, the extent of excavation from under pad 1278 can be seen here.

PHOTO F-7: Viewed nearly due east from on top of pad 1278, the extent of excavation from around existing monitoring well number 018GW001 can be seen here.

PHOTO F-8: Viewed towards the northeast from the paved area on the southwest end of the site, this photo reflects the condition of the site at the completion of all soil excavation.

PHOTO F-9: Viewed towards the southwest from behind existing monitoring well number 018GW001, this photo reflects the completed SWMU 5 site after backfilling.

PHOTO F-10: Viewed towards the northeast from the paved area on the southwest end of the site, this photo also reflects the completed SWMU 5 site after backfilling with the Cooper River in the background.

PHOTO F-1

PHOTO F-2

PHOTO F-3

PHOTO F-4

PHOTO F-5

PHOTO F-6

PHOTO F-7

PHOTO F-8

PHOTO F-9

PHOTO F-10